(FILE 'HOME' ENTERED AT 13:03:12 ON 15 OCT 2007)

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FILE 'CAPLUS, MEDLINE' ENTERED AT 13:03:46 ON 15 OCT 2007
             34 S FRIEDELIN? (P) LUPENONE?
L1
L2
              1 S L1 AND CO2
              0 S L1 AND SUPERCRITICAL
L3
              1 S L1 AND FLUID?
L4
              9 S BAMBOO? (P) SUPERCRITICAL
L5
              5 S L5 AND EXTRACT?
L6
              3 S L6 AND CO2
L7
              2 S L6 NOT L7
L8
              4 S L5 NOT L6
L9
             34 S L1 NOT L5
L10
              0 S L10 AND WT%
Lll
              0 S L10 AND %
L12
L13
              0 S L10 AND %WT
              0 S L10 AND PERCENT?
L14
              0 S L10 AND WEIGHT?
L15
            120 S FRIEDELIN/TI
L16
              O S FRIEDELIN/TI (P) SUPERCRITICAL?
L17
              0 S FRIEDELIN/TI (P) CO2
L18
              O S FRIEDELIN/TI AND SUPERCRITICAL?
L19
              1 S FRIEDELIN/TI AND CO2
L20
              2 S FRIEDELIN/TI AND BAMBOO
L21
             40 S FRIEDELIN/TI AND ISOLAT?
L22
              0 S FRIEDELIN/TI AND HYPOTENSION?
L23
L24
              0 S FRIEDELIN (P) HYPOTENSION?
L25
              9 S FRIEDELIN (P) CARCINOMA?
              5 S LUPENONE (P) CARCINOMA?
L26
              0 S LUPENONE/TI (P) CANCER?
L27
              0 S LUPENONE/TI (P) TUMOR?
L28
              0 S LUPENONE/TI (P) CARCINOMA?
L29
               5 S LUPENONE (P) CARCINOMA?
L30
L31
              O S LUPENONE (P) HYPOTENSION?
              0 S FRIEDELIN/TI AND HYPERTENSION?
L32
              0 S FRIEDELIN AND HYPERTENSION?
L33
              O S LUPENONE? (P) HYPERTENSION?
L34
              O S FRIEDELIN (P) HYPERTENSION?
L35
L36
             23 S TRITERPENOID? (P) HYPERTENSION?
L37
              O S TRITERPENOID? (P) HYPERTENSION? (P) CARCINOMA?
L38
            104 S TRITERPENOID? (P) CARCINOMA?
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(FILE 'HOME' ENTERED AT 13:03:12 ON 15 OCT 2007)

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FILE 'CAPLUS, MEDLINE' ENTERED AT 13:03:46 ON 15 OCT 2007
              34 S FRIEDELIN? (P) LUPENONE?
L1
L2
              1 S L1 AND CO2
              0 S L1 AND SUPERCRITICAL
L3
              1 S L1 AND FLUID?
L4
              9 S BAMBOO? (P) SUPERCRITICAL
L5
              5 S L5 AND EXTRACT?
L6
              3 S L6 AND CO2
L7
              2 S L6 NOT L7
rs
L9
              4 S L5 NOT L6
             34 S L1 NOT L5
L10
              0 S L10 AND WT%
L11
              0 S L10 AND %
L12
              0 S L10 AND %WT
L13
              0 S L10 AND PERCENT?
L14
              0 S L10 AND WEIGHT?
L15
            120 S FRIEDELIN/TI
L16
              O S FRIEDELIN/TI (P) SUPERCRITICAL?
L17
              0 S FRIEDELIN/TI (P) CO2
L18
              0 S FRIEDELIN/TI AND SUPERCRITICAL?
L19
              1 S FRIEDELIN/TI AND CO2
L20
              2 S FRIEDELIN/TI AND BAMBOO
L21
             40 S FRIEDELIN/TI AND ISOLAT?
L22
              0 S FRIEDELIN/TI AND HYPOTENSION?
L23
              0 S FRIEDELIN (P) HYPOTENSION?
L24
              9 S FRIEDELIN (P) CARCINOMA?
L25
              5 S LUPENONE (P) CARCINOMA?
L26
              O S LUPENONE/TI (P) CANCER?
L27
              O S LUPENONE/TI (P) TUMOR?
L28
L29
              0 S LUPENONE/TI (P) CARCINOMA?
              5 S LUPENONE (P) CARCINOMA?
L30
L31
              O S LUPENONE (P) HYPOTENSION?
L32
              0 S FRIEDELIN/TI AND HYPERTENSION?
L33
              O S FRIEDELIN AND HYPERTENSION?
              0 S LUPENONE? (P) HYPERTENSION?
L34
              O S FRIEDELIN (P) HYPERTENSION?
L35
L36
             23 S TRITERPENOID? (P) HYPERTENSION?
L37
              O S TRITERPENOID? (P) HYPERTENSION? (P) CARCINOMA?
            104 S TRITERPENOID? (P) CARCINOMA?
L38
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L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:513550 CAPLUS

DOCUMENT NUMBER:

141:76694

TITLE:

A composition containing triterpenoid saponins

extracted from bamboo, and the preparation method and

use thereof

INVENTOR(S):

Zhang, Ying; Wu, Xiaoqin; Yu, Zhuoyu; Zhu, Yunlong;

Chen, Lingen; Luo, Shenggen

PATENT ASSIGNEE(S):

Zhejiang University (Hangzhou) Leaf Bio-Technology

Co., Ltd., Peop. Rep. China; Shanghai Yunteng

Plant-Extract Science and Technology Development Co.,

Ltd.

SOURCE:

PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	CENT 1	NO.			KIND DATE						ICAT:		DATE						
	WO 2004052383				A1 20040624							20030428								
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CO,		
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,		
			HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,		
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	PH,		
			PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,		
			UA,	ŪĠ,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw								
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,		
			KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,		
			FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,		
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
									CN 2002-154401						20021210					
	AU 2003231499							2004	0630	AU 2003-231499						20030428				
	EP 1576958					A1 20050921				EP 2003-724792						20030428				
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,		
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK			
	JP 2006512330						T 20060413				JP 2004-557744						20030428			
	US	2006	1487	3 3		A1	A1 20060706			US 2005-538463						20051123				
PRIOR	RIORITY APPLN. INFO.:										CN 2002-154401						A 20021210			
											WO 2003-CN309 W 20030428							128		
λÞ	R The precent invention relates to an									composition containing triterner							hio			

AB The present invention relates to an composition containing triterpenoid saponins

extracted from Bamboo, and the preparation method and use thereof. The triterpenoid saponins are extracted from various parts of bamboo belonging to Gramineae, such as Bamboo Shavings and the like, using supercrit. CO2 fluid extraction technol. The content of triterpenoid saponins in the composition is 10-90%. The contents of friedelin and lupenone are 5-35% and 1-10% resp. The extract has good anti-free radical, anti-oxidation, antitumor, hypotensive activities and the like. The extract of the present invention can be useful as therapeutic drugs or functional foods for the treatment or prevention of cardiovascular and cerebral vascular diseases, as well as for the treatment of tumor, and useful in cosmetic field.

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN L7

ACCESSION NUMBER:

2006:666734 CAPLUS

DOCUMENT NUMBER:

145:434438

TITLE:

Method for extracting phytosterol from

bamboo shoot with supercritical

fluid, and application of the phytosterol

extract

INVENTOR(S):

Zhang, Ying; Lu, Baiyi; Wu, Xiaoqin; Liang, Yan

Hangzhou Zhejiang University Innoessen Biotechnology PATENT ASSIGNEE(S):

Co., Ltd., Peop. Rep. China; Fujian Jianou Yingshi

Special Local Product Co., Ltd.

SOURCE:

Faming Zhuanli Shenqing Gongkai Shuomingshu, 17 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1796400	A	20060705	CN 2004-10099219	20041229
PRIORITY APPLN. INFO.:			CN 2004-10099219	20041229
ND The title phytograph	ol ovt	ract contains	total storols 5-509	which includ

The title phytosterol extract contains total sterols 5-50%, which includes

β-sitosterol, stigmasterol and campesterol at a ratio of

(10-40):(1-3):(2-5). The phytosterol extract is prepared by extracting bamboo shoot

with supercrit. CO2 for 1-5 h under the following conditions:

extraction pressure of 15-35 MPa, extraction temperature of 40-70°, separation temperature of

30-50° and separation pressure of 4-8 MPa. The phytosterol extract has anti-inflammatory and leukemia cells proliferation inhibiting effects, and can be used in cosmetics, food products, health products and medicines.

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN L7

ACCESSION NUMBER:

2004:411591 CAPLUS

DOCUMENT NUMBER:

140:412292

TITLE:

Extraction of antibacterial and/or antioxidant agents from bamboo

INVENTOR(S):

Kitein, Armand Tibigin; Moriyoshi, Takashi Kagawa Industry Support, Japan

PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 6 pp.

SOURCE: CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC: NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		-		
JP 2004143106	A	20040520	JP 2002-311104	20021025
PRIORITY APPLN. INFO.:			JP 2002-311104	20021025

Title agents are obtained from dried bamboo powder by supercrit. extraction AB Thus, dried bamboo powder was extracted with supercrit. CO2 to give ethoxyquin, sesquiterpene, and cyclohexanone derivative

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN L7

ACCESSION NUMBER:

2004:45451 CAPLUS

DOCUMENT NUMBER:

140:253239

TITLE:

Isolation of Antimicrobials and Antioxidants from

Moso-Bamboo (Phyllostachys Heterocycla) by

Supercritical CO2 Extraction

and Subsequent Hydrothermal Treatment of the Residues

Quitain, Armando T.; Katoh, Shunsaku; Moriyoshi, AUTHOR (S):

Takashi

CORPORATE SOURCE:

Research Institute for Solvothermal Technology,

Takamatsu, Kagawa, 761-0301, Japan

SOURCE:

Industrial & Engineering Chemistry Research (2004),

43(4), 1056-1060

CODEN: IECRED; ISSN: 0888-5885

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

English

LANGUAGE: AB

Supercrit. CO2 with or without EtOH (as the cosolvent) was used to isolate antimicrobials and antioxidants from moso-bamboo (Phyllostachys heterocycla). The exts. contained three predominant EtOH-soluble compds.

identified by gas chromatog. - mass spectrometry as an ethoxyquin, a sesquiterpene, and a cyclohexanone derivative The optimum extraction

temperature for the

three compds. was 60° at a pressure of 20 MPa. The EtOH-insol. compds. consisted of mostly paraffins or waxes. Hydrothermal treatment of extraction residues produced hydroquinone and benzoquinone. Hydroxycinnamic acid, a known antioxidant, was also obtained by microwave pyrolysis of extraction residues.

REFERENCE COUNT:

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:850294 CAPLUS

DOCUMENT NUMBER: 145:255542

TITLE: Cosmetic composition containing nanoliposome which

contains bamboo sap extract obtained by supercritical fluid

extraction and lactic acid bacteria fermented

solution for prevention of skin-aging and improvement

of acne

INVENTOR(S): Choi, Gun Ho; Choi, Jang Woo; Lee, Seung Hwa

PATENT ASSIGNEE(S): Nadri Cosmetics Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DOCUMENT TYPE: Patent Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

KR 2005010447 A 20050127 KR 2003-49711 20030721

PRIORITY APPLN. INFO.: KR 2003-49711 20030721

AB Provided is a cosmetic composition containing the nanoliposome which contains the

bamboo sap extract obtained by supercrit. fluid extraction and lactic acid bacteria fermented solution Therefore, the composition prevent of skin-aging and

improves acne by increasing skin elasticity and moisturization. The cosmetic composition is characterized by containing, based on the total weight of the

composition, 0.5-30.0% of the nanoliposome which contains bamboo sap extract using

supercrit. fluid extraction and lactic acid bacteria fermented solution for prevention of skin-aging and improvement of acne. The lactic acid bacteria include bifidobacteria longum, lactobacillus casei, lactobacillus acidophilus and streptococcus thermophilus.

L8 ANSWER 2 OF 2 MEDLINE on STN

ACCESSION NUMBER: 2006574794 MEDLINE DOCUMENT NUMBER: PubMed ID: 16886233

TITLE: Anti-fatigue activity of a triterpenoid-rich extract from Chinese bamboo shavings (Caulis

bamfusae in taeniam).

AUTHOR: Zhang Yu; Yao Xiaobao; Bao Bili; Zhang Ying

CORPORATE SOURCE: Department of Food Science and Nutrition, College of Biosystems Engineering and Food Science, Zhejiang

University, Hangzhou 310029, Zhejiang Province, PR China...

y zhang@zju.edu.cn

SOURCE: Phytotherapy research: PTR, (2006 Oct) Vol. 20, No. 10,

pp. 872-6.

Journal code: 8904486. ISSN: 0951-418X.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200701

ENTRY DATE: Entered STN: 28 Sep 2006

Last Updated on STN: 4 Jan 2007 Entered Medline: 3 Jan 2007

AB The anti-fatigue activity of a pentacyclic triterpenoid extract from bamboo shavings (EBS) from the bark of bamboo

(Bambusa tuldoides Munro), was evaluated in BALB/c mice. EBS, isolated by

the supercritical CO(2) fluid extraction (SFE) technique, was given to mice at concentrations of 0.04 (low-dose group), 0.08 (middle-dose group) and 0.25 g/kg body weight (high-dose group). The anti-fatigue activity of EBS was estimated by the change in body weight, weight-loaded swimming test and climbing test, and corresponding parameters including serum urea nitrogen, hepatic glycogen and blood lactic acid were measured. The results showed that an appropriate level of EBS could prolong the weight-loaded swimming and climbing time, and had an active effect on the serum urea nitrogen, hepatic glycogen and blood lactic acid level in BALB/c mice, which significantly embodied the anti-fatigue activity of EBS. Overall, it is predicted that EBS, being a composition mainly containing a group of pentacyclic triterpenoids, and its main triterpenoid components have great potential for application in relevant fields for its anti-fatigue activity. Copyright 2006 John Wiley & Sons, Ltd.

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1068352 CAPLUS

TITLE: Synthesis of biomorphological mesoporous TiO2

templated by mimicking bamboo membrane in

supercritical CO2

AUTHOR(S): Li, Jinhong; Shi, Xiaoying; Wang, Lijuan; Liu, Fei

CORPORATE SOURCE: State Key Laboratory of Geological Processes and

Mineral Resources, China University of Geosciences,

Beijing, 100083, Peop. Rep. China

SOURCE: Journal of Colloid and Interface Science (2007),

315(1), 230-236

CODEN: JCISA5; ISSN: 0021-9797

PUBLISHER: Elsevier DOCUMENT TYPE: Journal English

A new approach is presented for preparing biomorphol. mesoporous TiO2 templated by mimicking bamboo inner shell membrane via supercrit. CO2 (SCCO2) transportation through titanium tetrabutyloxide (TTBO). of wide-angle X-ray powder diffraction (XRD) showed the prepared TiO2 in phase of anatase, and the small-angle XRD revealed the presence of mesopores without periodicity. The product exhibited the shape of crinkled films and extended in two dimensions up to centimeters. The electron microscopic observation showed that the TiO2 films were around 200 nm in thickness, and across the films there were numerous round or ellipse-shaped mesopores, being 10-50 nm in diameter, which were formed by the close packing of TiO2 particles. High-resolution transmission electron microscope (HRTEM) displayed that the single TiO2 particle size was about 12.5 nm. The UV-vis absorption spectrum was transparent in the wavelength of 320-350 nm for suspensions of the prepared mesoporous TiO2 in ethanol at the concentration of 5.0 mg/l. The mesoporous TiO2 prepared with the aid of SCC02

exhibited an obvious blue shift compared with the TiO2 prepared by sol-gel infiltration. The possible mechanism for the formation of the mesoporous TiO2 is summarized into a biomimetic mineralization pathway. First, TTBO was transported to the membrane surface via SCCO2, and then condensed. Hydrolysis reactions between the functional groups of organic membrane and TTBO took place to form the nuclear TiO2, and the TiO2 seeds grew around the organic membrane into TiO2 mesoporous materials. The approach provides a low-cost and efficient route for the production of ceramics nanomaterials with unique structural features, which may have potential application in designing UV-selective shielding devices.

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:886322 CAPLUS

TITLE:

Bamboo is a suitable substrate for polymerizations when swollen with

supercritical CO2

AUTHOR(S): Eastman, Scott A.; Lesser, Alan J.; McCarthy, Thomas

J.

CORPORATE SOURCE: Department of Polymer Science and Engineering,

University of Massachusetts, Amherst, Amherst, MA,

01072, USA

SOURCE: Abstracts of Papers, 234th ACS National Meeting,

Boston, MA, United States, August 19-23, 2007 (2007), PMSE-508. American Chemical Society: Washington, D.

C.

CODEN: 69JNR2

DOCUMENT TYPE: Conference; Meeting Abstract; (computer optical disk)

LANGUAGE: English

AB Bamboo composites were infused with a number of silicone reagents as well as cyclooctadiene and dicyclopentadiene monomers with the assistance of supercrit. CO2. These additives were then polymerized and crosslinked insitu to obtain unique natural composites. Bending stiffness and energy release

rate were measured and compared with unmodified bamboo. Fire resistance properties were also measured to determine if the composites differed in total heat release and char yield. It was found that the silicone additives tend to increase the bending modulus, energy release rate, and fire resistance slightly. Bamboo-poly(alkenamer) composites showed an increase in bending modulus and energy release rate; however, the fire resistance properties were not affected.

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN L9

2007:854956 CAPLUS ACCESSION NUMBER:

Bamboo is a suitable substrate for TITLE:

polymerizations when swollen with

supercritical CO2

Eastman, Scott A.; Lesser, Alan J.; McCarthy, Thomas AUTHOR(S):

J.

Department of Polymer Science and Engineering, CORPORATE SOURCE:

University of Massachusetts, Amherst, MA, 01002, USA

PMSE Preprints (2007), 97, 897-899 SOURCE:

CODEN: PPMRA9; ISSN: 1550-6703

American Chemical Society PUBLISHER:

Journal; (computer optical disk) DOCUMENT TYPE:

English LANGUAGE:

Unavailable AB

REFERENCE COUNT: THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS 17

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN L9

ACCESSION NUMBER: 2003:671295 CAPLUS

DOCUMENT NUMBER: 139:199799

Method for hydrolysis treatment of biomass including TITLE:

bamboo and wood with shock collision by using

sub-critical or super-critical fluid

Ito, Shigeru INVENTOR(S):

Japan PATENT ASSIGNEE(S):

Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE:

Patent

CODEN: JKXXAF

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DOCUMENT TYPE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003238969	A	20030827	JP 2002-41980	20020219
PRIORITY APPLN. INFO.:			JP 2002-41980	20020219

The method is carried out by pretreatment of the biomass with applying the AB shock wave on the biomass to selectively destroy the blocked pore edge-wall and cell membrane, or pulverization to be micro chips, then impregnating the resulting biomass in the fluid (e.g., alc., water, CO2) under sub-critical or super-critical conditions for readily hydrolysis treatment

to recover valuable chems. from the biomass.

L10 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:544551 CAPLUS

DOCUMENT NUMBER: 83:144551

TITLE: Indian medicinal plants. XXXIV. Triterpenes from

Grewia asiatica

AUTHOR(S): Chattopadhyay, Subhagata; Pakrashi, S. C.

CORPORATE SOURCE: Dep. Med. Chem., Indian Inst. Exp. Med., Calcutta,

India

SOURCE: Journal of the Indian Chemical Society (1975), 52(6),

553

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal LANGUAGE: English

AB The stem-bark of G. asiatica was successively extracted in a Soxhlet apparatus

with

petroleum ether, C6H6, and CH2Cl2. From the petroleum ether extract was isolated lupeol and betulin. From the petroleum ether and C6H6 extract was isolated lupenone and friedelin. The compds. were

identified by phys. and chemical properties.

L10 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:455701 CAPLUS

DOCUMENT NUMBER: 83:55701

TITLE: Triterpenoids from ten Lithocarpus species of Hong

Kong

AUTHOR(S): Hui, Wai-Haan; Ko, Phyllis D. S.; Lee, Yuk-Chun; Li,

Man-Moon; Arthur, Henry R.

CORPORATE SOURCE: Dep. Chem., Univ. Hong Kong, Hong Kong, Hong Kong SOURCE: Phytochemistry (Elsevier) (1975), 14(4), 1063-6

CODEN: PYTCAS; ISSN: 0031-9422

DOCUMENT TYPE: Journal LANGUAGE: English

From the petrol exts. of the leaves and stems of 10 Lithocarpus species AB (L. attenuata, L. cornea, L. elizabethae, L. glabra, L. haipinii, L. hancei, L. harlandi, L. irwinii, L. litchioides, and L. polystachya) of the Fagaceae family, were isolated 23 different triterpenoids, and sitosterol and stigmasterol. Of the triterpenoids, 11 belonged to the oleanane and rearranged oleanane group [β-amyrin, friedelin , friedelan-3β-ol, glutinol, taraxerone, taraxerol, and its acetate, canophyllol (28-hydroxyfriedelan-3-one), friedelan-2,3-dione (3-hydroxyfriedel-3-en-2-one), pachysandiol A $(2\alpha, 3\beta$ dihydroxyfriedelane) and a new compound lithocarpic lactone C30H5002]. Four compds. were from the lupane and rearranged lupane group (lupenone , lupeol, betulin, and taraxasterol), 2 from the hopane group (22-hydroxyhopan-3-one and 3β , 22-dihydroxyhopane), and 6 were probably new compds.

L10 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:175161 CAPLUS

DOCUMENT NUMBER: 82:175161

TITLE: Chemical components of Avicennia officinalis
AUTHOR(S): Subramanian, S. Sankara; Vedantham, T. N. C.
CORPORATE SOURCE: Dep. Chem., Jawaharlal Inst. Postgrad. Med. Educ.

Res., Pondicherry, India

SOURCE: Indian Journal of Pharmacy (1974), 36(4), 105-6

petroleum-benzene (9:1) fractions gave friedelin [559-74-0], m.

CODEN: IJPAAO; ISSN: 0019-5472

DOCUMENT TYPE: Journal LANGUAGE: English

The aerial parts of A. officinalis were extracted with CHCl3 followed by 80% EtOH. Chromatog. of the extract on neutral alumina and elution with light petroleum yielded lupenone [1617-70-5], m. 165-6°, identified by comparison with an authentic sample. Light

257-9°. Further elution with 1:1 light petroleum-benzene yielded lupeol [545-47-1], m. 208-10° and β -sitoserol [83-46-5], m. 132-3°. Elution with 98:2 CHCl3-MeOH gave betulinic acid [472-15-1], m. > 280°, identified as the Me ester m. 220-1°, acetate m. > 280°, and Me ester acetate m. 198-200°; and ursolic acid [77-52-1], m. > 280°, identified by preparation of its Me ester and Me ester acetate.

L10 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1973:1995 CAPLUS

DOCUMENT NUMBER: 78:1995

TITLE: Constituents of pollen. 1. Constituents of Quercus

acutissima. 1

AUTHOR(S): Ohmoto, Taichi; Nikaido, Tamotsu; Ikuse, Masa CORPORATE SOURCE: Fac. Pharm., Toho Univ., Funabashi, Japan SOURCE: Shoyakugaku Zasshi (1972), 26(1), 36-40

CODEN: SHZAAY; ISSN: 0037-4377

DOCUMENT TYPE: Journal LANGUAGE: Japanese

AB Pollen of Q. actissima was crushed ultrasonically and its constituents were studied. Stearic, palmitic, and oleic acids; friedelin;

O ammenda lunguage of ditestarely sempestarely

 β -amyrenone; lupenone; β -sitosterol; campesterol;

glycerin; and araban were identified. Eighteen amino acids and citric,

malonic, and malic acids were determined

L10 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:458778 CAPLUS

DOCUMENT NUMBER: 77:58778

TITLE: Chemistry of Brazilian Guttiferae. XXVIII. Xanthones

from Caraipa densiflora

AUTHOR(S): Alves De Lima, R.; Gottlieb, O. R.; Mesquita, A. A.

Lins

CORPORATE SOURCE: Esc. Pos-Graduacao, Univ. Fed. Rural Rio de Janeiro,

Rio de Janeiro, Brazil

SOURCE: Phytochemistry (Elsevier) (1972), 11(7), 2307-9

CODEN: PYTCAS; ISSN: 0031-9422

DOCUMENT TYPE: Journal LANGUAGE: English

The trunk wood of C. grandifolia contains sitosterol, lupeol, lupenone, betulinic acid, and vanillin. The trunk wood of C. densiflora contains sitosterol, lupeol, friedelin, betulinic acid, vanillin, 1,6-dihydroxy-7,8-methylene-dioxyxanthone, and

1,5-dihydroxy-6,7-dimethoxyxanthone.

L10 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1970:705 CAPLUS

DOCUMENT NUMBER: 72:705
ORIGINAL REFERENCE NO.: 72:119a,122a

TITLE: New Zealand phytochemical survey. VII. Constituents

of some dicotyledons

AUTHOR(S): Cambie, Richard C.; Parnell, J. C. CORPORATE SOURCE: Univ. Auckland, Auckland, N. Z.

SOURCE: New Zealand Journal of Science (1969), 12(3), 453-66

CODEN: NZJSAB; ISSN: 0028-8365

DOCUMENT TYPE: Journal LANGUAGE: English

The leaves of Olearia paniculata were found to contain the triterpenes, friedelin, lupenone, and lupenyl acetate, and a small amount of a triterpene diol, tentatively identified as sophoradiol. Friedelin was also isolated from the roots of O. paniculata, while epifriedelinol, lupeol, lupenyl acetate and β -sitosterol were provisionally identified in the exts. by thin-layer chromatog. (TLC). The wood of Corokia buddleioides was found to contain taraxerol and

β-sitosterol. Two further triterpenes isolated were identified as

lupeol and lupenyl acetate. Lupeol was also the major triterpene isolated from the aerial portions of Gaultheria paniculata while β -sitosterol was also isolated from the extract Friedelin, β -sitosterol, and ellagic acid were isolated from the wood of Elaeocarpus hookerianus. An extract of the wood of Planchonella novo-zelandica contained lupeol, α -amyrin, α -amyrinyl acetate, α -spinasterol, stigmasterol, and campesterol. The wood of Homalanthus polyandrus contained a small amount of an unidentified triterpene ketone, C30H48O, isomeric with and similar to taraxerone and lupenone, but differing in its behavior on TLC. β -Sitosterol was also isolated from the extract The leaves of Alseuosmia macrophylla contained lupeol, lupenyl acetate, and stigmasterol as principal constituents of a mixture of aliphatic acids and stearic acid. They also contained at least 3 triterpene acetates which have not been characterized. β-Sitosterol and traces of unidentified triterpenes were isolated from an ether extract of the wood of Nothofagus solandri. Large amts. of D-mannitol were obtained from the wood of Myoporum laetum. Alkaloids were present in the leaves and β-sitosterol was identified in the wood and bark. D-Mannitol was the major compound isolated from the wood of Hebe salicifolia. β-Sitosterol was the only compound readily identified in exts. of wood of Aciphylla colensoi, the aerial parts of Clematis hookeriana, and the wood of Senecio elaeagnifolius. β-Sitosterol and leucoanthocyanidin were the only extractives identified in the wood of Knightia excelsa. Stigmasterol and β -sitosterol were the principal sterols found in the bark and wood of Pseudopanax crassifolium. Mixts. of stigmasterol and β-sitosterol were also found in the leaves and wood of the related species Neopanax laetum and the woods of N. arboreum, N. colensoi, N. simplex, and N. simplex var sinclairii. The principal constituent of a mixture of aliphatic alcs. in the leaves of N. laetum was identified as triacontan-1-ol. The barks of Pittosporum colensoi and P. eugenioides also contained stigmasterol and β -sitosterol.

L10 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:488461 CAPLUS

DOCUMENT NUMBER: 71:88461

ORIGINAL REFERENCE NO.: 71:16437a,16440a

TITLE: Triterpenoids and related compounds from gramineae

plants. V

AUTHOR(S): Ohmoto, Taichi

CORPORATE SOURCE: Fac. Pharm., Toho Univ., Funabashi, Japan

SOURCE: Yakugaku Zasshi (1969), 89(6), 814-20

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal LANGUAGE: Japanese

Triterpenoids in Paspalum dilatatum, Hemarthrica sibirica, Miscanthus AB sacchariflorus, M. sinensis, Saccharum spontaneum var arenicola, Coix lacryma-jobi, and Zea mays were examined from a chemotaxonomic point of view. Lupeol Me ether, m. 250-1°, $[\alpha]D23$ 35.6° (CHCl3) was isolated from culms and leaves of P. dilatatum and identified with a specimen prepared by methylation of lupeol. Other constituents were β -amyrin, its Me ether, α -amyrin Me ether, campesterol, crusgallin, cylindrin, ferneol, friedelin, glutinol, glutinone, isoarborinol, lupeol, miliacin, β -sitosterol, stigmasterol, and taraxerol. Triterpenoids of Zoysia matrella were reinvestigated and fernenone, m. 206-7°, $[\alpha]D23$ -39.4°, and 12-ketoarundoin, m. 291°, $[\alpha]D23 -5.2°$, were identified for the first time from natural sources. Arundoin and lupenone were obtained from Cynodon dactylon and Phyllostachys heterocycla var pubescens, resp.

L10 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:481570 CAPLUS

DOCUMENT NUMBER: 71:81570

ORIGINAL REFERENCE NO.: 71:15153a,15156a

TITLE: Examination of the Euphorbiaceae of Hong Kong. VI.

Isolation and structure of glochidonol, a new

triterpene ketol from Glochidion wrightii

AUTHOR(S): Hui, Wai Haan; Fung, M. L. CORPORATE SOURCE: Univ. Hong Kong, Hong Kong

SOURCE: Journal of the Chemical Society [Section] C: Organic

(1969), (13), 1710-12

CODEN: JSOOAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Glochidonol, isolated from the stems of G. wrightii was shown to be 1β-hydroxylup-20(29)-en-3-one (I) by chemical and N.M.R. spectroscopic evidence. The mass spectrum of glochidonyl acetate is discussed. Other compds. obtained from both the leaves and stems of the same plant are

friedelin, glochidone, friedelan-3 β -ol, β -sitosterol,

and glochidiol. Lupenone and lupeol are also found in the

stems.

L10 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1968:47008 CAPLUS

DOCUMENT NUMBER: 68:47008

ORIGINAL REFERENCE NO.: 68:9079a,9082a

TITLE: Triterpenes from some New Zealand dicotyledons

AUTHOR(S): Briggs, Lindsay H.; Cambie, Richard C.; Couch, R. A.

F.

CORPORATE SOURCE: Univ. Auckland, Auckland, N. Z.

SOURCE: New Zealand Journal of Science (1967), 10(4), 1076-82

CODEN: NZJSAB; ISSN: 0028-8365

DOCUMENT TYPE: Journal LANGUAGE: English

This detailed study of New Zealand dicotyledons was made to isolate and identify the triterpenes which occur in them. In all cases, these were isolated by chromatog. of ether-soluble fractions on alumina for neutral compounds or on silica gel for acids. Identification of the compds. was made by direct comparison with authentic samples or by conversion to derivs. Friedelin, epifriedinol, and β -sitosterol were identified in the bark of Alectryon excelsum; lupenone, lupeol, and lupenyl acetate in the leaves and tataxerol, teraxeryl acetate, and taraxerone in the bark of Dracophyllum recurvum; lupeol in the bark of Carpodetus serratus; taraxerol and β -sitosterol in the wood of Corokia buddleioides; ursolic acid in the leaves of Ixerba brexioides; and β -sitosterol and a leucoanthocyanin in the bark of Knightia excelsa.

L10 ANSWER 33 OF 34 MEDLINE on STN ACCESSION NUMBER: 2001068765 MEDLINE DOCUMENT NUMBER: PubMed ID: 10923844

TITLE: A novel agarofuran sesquiterpene, celahin D from Celastrus

hindsii Benth.

AUTHOR: Huang H C; Shen C C; Chen C F; Wu Y C; Ku Y H

CORPORATE SOURCE: Graduate Institute of Natural Products, Kaohsiung Medical

College, Taiwan, ROC.

SOURCE: Chemical & pharmaceutical bulletin, (2000 Jul) Vol. 48, No.

7, pp. 1079-80.

Journal code: 0377775. ISSN: 0009-2363.

PUB. COUNTRY: Japan

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200101

ENTRY DATE: Entered STN: 22 Mar 2001

Last Updated on STN: 22 Mar 2001

Entered Medline: 4 Jan 2001

AB A novel agarofuran sesquiterpene polyol ester, 1beta, 2beta, 6alpha, 15beta-tetracetoxy-8 beta, 9alpha-dibenzoyloxy-beta-dihydroagarofuran (celahin D) (1), two known analogues of 1,1beta-acetoxy-8beta, 9alpha-dibenzoyloxy-4al pha6alpha-dihydroxy-2beta(alphamethylbutanoyloxy)-beta-+++dihydroagarofuran (2) and beta-acetoxy-8beta, 9alpha-dibenzoyloxy-6alpha-hy droxy-2beta(alpha-methylbutanoyloxy)-beta-dihydroagarofuran (3), and a known cytotoxic sesquiterpene pyridine alkaloid, emarginatine E (4) were isolated from the stems of Celastrus hindsii Benth. Three known triterpenes, loranthol (5), lupenone (6) and friedelinol (7) were also obtained from the titled plant. Structural elucidation of compound 1 was established by 2D NMR spectra.

L10 ANSWER 34 OF 34 MEDLINE on STN ACCESSION NUMBER: 2000113513 MEDLINE DOCUMENT NUMBER: PubMed ID: 10647216

TITLE: Pentacyclic triterpenes from Chuquiraga ulicina.

AUTHOR: Flagg M L; Valcic S; Montenegro G; Gomez M; Timmermann B N

CORPORATE SOURCE: Department of Pharmaceutical Sciences, College of Pharmacy,

University of Arizona, Tucson 85721, USA.

CONTRACT NUMBER: ES06694 (NIEHS)

T37TW00036 (FIC)
U01 TW00316-06 (FIC)

SOURCE: Phytochemistry, (1999 Dec) Vol. 52, No. 7, pp. 1345-50.

Journal code: 0151434. ISSN: 0031-9422.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

(RESEARCH SUPPORT, U.S. GOV'T, NON-P.H.S.)
(RESEARCH SUPPORT, U.S. GOV'T, P.H.S.)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200002

ENTRY DATE: Entered STN: 9 Mar 2000

Last Updated on STN: 9 Mar 2000 Entered Medline: 23 Feb 2000

Four taraxastane triterpenes, 3 beta-acetoxy-6 beta-hydroxytaraxasta-20-ene, 6 beta-hydroxytaraxasta-20-ene-3-one, 6 beta-hydroxytaraxasta-20-ene 3 beta-palmitate and 3 beta,6 beta-dihydroxytaraxasta-20-ene were isolated from the dichloromethane-methanol extract of Chuquiraga ulicina ssp. ulicina together with the known triterpenes lupeol, lupenyl acetate, lupenone, friedelinol, 3 beta-acetoxy-30-nor-lupan-20-one, and 30-nor-lupan-3 beta-ol-20-one.

0 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:450410 CAPLUS

DOCUMENT NUMBER: 127:188193

TITLE: Gracilipene: a heterocyclic seco-trisnor-oleanane from

Calophyllum gracilipes (Guttiferae)

AUTHOR(S): Cao, Shu-Geng; Sim, Keng-Yeow; Goh, Swee-Hock; Xue,

Feng; Mak, Thomas C. W.

CORPORATE SOURCE: Department Chemistry, National University Singapore,

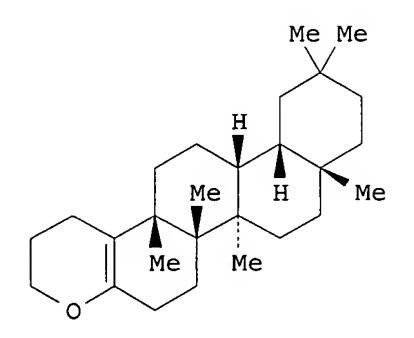
119260, Singapore

SOURCE: Tetrahedron Letters (1997), 38(27), 4783-4786

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier DOCUMENT TYPE: Journal English

GI



I

AB Gracilipene (I), a novel heterocyclic trisnor-triterpene from the leaves of Calophyllum gracilipes, shows an unprecedented rearranged seco-trisnor-oleanane structure with a dihydropyran ring-A, a determined by NMR spectra and single crystal X-ray anal. Other known triterpenes isolated include friedelin, lupeol, lupenone,

 $\beta\text{-sitosterol},$ stigmasterol, $3\beta\text{-hydroxy-30-norlupan-20-one},$ lupane-3 β , 20-diol, (20R)-3 β -hydroxylupan-29-oic acid, betulinic acid and squalene.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:453161 CAPLUS

DOCUMENT NUMBER: 122:235234

TITLE: Isolation of constituents from the leaves of Syzygium

tripinnatum

AUTHOR(S): Tsai, Ian-Lih; Sheen, Wine-Show; Chen, Jih-Jung; Chen,

Ih-Sheng

*CORPORATE SOURCE: School of Pharmacy, Kaohsiung Medical College,

Kaohsiung, Taiwan

SOURCE: Chinese Pharmaceutical Journal (Taipei, Taiwan)

(1994), 46(5), 401-12

CODEN: CPHJEP; ISSN: 1016-1015

DOCUMENT TYPE: Journal LANGUAGE: English

AB Six triterpenoids (friedelin, lupenone, lupeol,

lupenyl palmitate, obtusalin and cycloartenyl stearate) and 3 steroids

(stigmast-4-en-3-one, β -sitosterol and β -sitosteryl stearate) were isolated from the CHCl3 soluble fraction of the leaves of S.

tripinnatum. The structures of these compds. were verified by chemical and spectroscopic methods.

L10 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:184598 CAPLUS

DOCUMENT NUMBER: 122:76535

TITLE: Foliar lipids. III. Triterpenic ketones.

AUTHOR(S): Debal, A.; Mallet, J.-F.; Ucciani, E.; Doumenq, P.;

Gamisans, J.

CORPORATE SOURCE: Faculte des Sciences et Techniques, Marseille, 13397,

Fr.

SOURCE: Revue Française des Corps Gras (1994), 41(5-6), 113-18

CODEN: RFCGAE; ISSN: 0035-3000

DOCUMENT TYPE: Journal LANGUAGE: French

AB Hexane exts. of plant leaves (HEPL) of 16 species have been investigated for their triterpenic ketone content. Five pentacyclic ketones have been

identified by GC/IR-FT and GC-MS, i.e. arborinone, taraxerone,

lupenone, friedelin and β -amyrenone. A sixth one

could not be identified. Two species represented interesting sources:

Ruscus aculeatus (12.5% lupenone/HEPL) and Senecio bicolor (8.1

 $% \beta$ -amyrinone/HEPL).

L10 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:442514 CAPLUS

DOCUMENT NUMBER: 121:42514

TITLE: Chemical components of of Daguoyoumateng (Mucuna

macrocarpa)

AUTHOR(S): Hu, Wangyun; Luo, Shide; Cai, Jianxun

CORPORATE SOURCE: Kunming Inst. Bot., Chin. Acad. Sci., Kunming, 650223,

Peop. Rep. China

SOURCE: Zhongcaoyao (1994), 25(2), 59-60,63

CODEN: CTYAD8; ISSN: 0253-2670

DOCUMENT TYPE: Journal LANGUAGE: Chinese

AB Lupenone, friedelin, $\Delta 5,22$ -stigmastadien-3 β -

ol, 2,3-dihydroxypropyl tetracosanoate, 2,3-dihydroxypropyl

pentacosanoate, and 2,3-dihydroxypropyl hexacosanoate were isolated from Daguoyoumateng (Mucuna macrocarpa stem) and identified by chemical and spectrochem. methods. 2,3-Dihydroxypropyl pentacosanoate was a novel

comod.

L10 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:240087 CAPLUS

DOCUMENT NUMBER: 120:240087

TITLE: Constituents of Clusia fluminensis

AUTHOR(S): Nagem, Tanus J.; Mesquita, Antonio A. L.; Silva,

Rosalice

CORPORATE SOURCE: Dep. Chem., Univ. Minas Gerais, Belo Horizonte, 30161,

Brazil

SOURCE: Fitoterapia (1993), 64, 380

CODEN: FTRPAE; ISSN: 0367-326X

DOCUMENT TYPE: Journal LANGUAGE: English

AB The leaves of Clusia fluminensis yielded tricosane, lupenone,

friedelin, α - and β - friedelinol, amyrin,

octacosanol, and β -sitosterol.

L10 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:155281 CAPLUS

DOCUMENT NUMBER: 112:155281

TITLE: The constituents from petroleum ether fraction of the

stem bark of Premna fulva Craib

AUTHOR(S): Zeng, Quan; Liu, Chengji; Liu, Ligen

CORPORATE SOURCE: Dep. Tradit. Chin. Med., China Pharm. Univ., Nanjing,

Peop. Rep. China

SOURCE: Zhongguo Yaoke Daxue Xuebao (1989), 20(2), 94-6

CODEN: ZHYXE9; ISSN: 1000-5048

DOCUMENT TYPE: Journal LANGUAGE: Chinese

The following compds. were isolated in crystal form from the petroleum ether fraction from P. fulva stem bark: friedelin, friedelan-3 β -ol, β -sitosterol, and lupen-3-one. The compds. were identified by chemical and spectroscopic anal. Lupene-3-one was isolated and identified from the Premma genus (Verbenaceae) for the first time.

L10 ANSWER 20 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:181424 CAPLUS

DOCUMENT NUMBER: 92:181424

TITLE: Photochemical or photomimetic fossil triterpenoids in

sediments and petroleum

AUTHOR(S): Corbet, B.; Albrecht, P.; Ourisson, G.

CORPORATE SOURCE: Inst. Chim., Univ. Louis Pasteur, Strasbourg, 67 008,

Fr.

SOURCE: Journal of the American Chemical Society (1980),

102(3), 1171-3

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

AB Eighteen fossil triterpneoids, including friedelin, α - and β -amyrenone, lupenone, lupanone and related ring-opened

derivs., were isolated from the sediments in the delta of the Mahakam river (Indonesia) and some photochem. mechanisms were postulated for their

formation.

L10 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:117763 CAPLUS

DOCUMENT NUMBER: 88:117763

TITLE: An examination of the Euphorbiacace of Hong Kong.

Part 16. Triterpenoids from Glochidion macrophyllum

and G. puberum

AUTHOR(S): Hui, Wai-Haan; Li, Man-Moon

CORPORATE SOURCE: Dep. Chem., Univ. Hong Kong, Hong Kong, Hong Kong

SOURCE: Phytochemistry (Elsevier) (1978), 17(1), 156-7

CODEN: PYTCAS; ISSN: 0031-9422

DOCUMENT TYPE: Journal LANGUAGE: English

GI

$$CH_2 = C$$
 R_{10}
 Me
 Me

IV, R=H, $R^1=Ac$ V, R=Ac, $R^1=H$

AB G. macrophyllum yielded Me betulinate and glochilocudiol. G. puberum leaves yielded friedelin (I), friedelan-3 β -ol (II), lupeol,

lup-20(29)-ene-1,3-dione, and sitosterol (III), and the stems I, II, III, lupenone, glochidone, lup-20(29)-en-1 β -ol-3 α -yl acetate (IV), $lup-20(29)-en-3\alpha-ol-1\beta-yl$ acetate (V), glochidonol, glochidiol, and $lup-20(29)-ene-1\beta$, 3β -diol.

CAPLUS COPYRIGHT 2007 ACS on STN L10 ANSWER 22 OF 34

ACCESSION NUMBER: 1977:117668 CAPLUS

86:117668 DOCUMENT NUMBER:

Chemical constituents of the flowers and leaves of TITLE:

Notonia grandiflora

Kotaiah, Y.; Lakshmi, N. K. M.; Rao, E. Venkata; Rao, AUTHOR(S):

D. Venkata

Dep. Pharm. Sci., Andhra Univ., Waltair, India CORPORATE SOURCE:

Indian Journal of Pharmacy (1976), 38(5), 130-1 SOURCE:

CODEN: IJPAAO; ISSN: 0019-5472

Journal DOCUMENT TYPE: English LANGUAGE:

Two flavonoids were isolated from the flowers of N. grandiflora and AB

identified as kaempferitrin and kaempferol 7-0-rhamnoside.

Friedelin and lupenone were isolated from the leaves.

CAPLUS COPYRIGHT 2007 ACS on STN L10 ANSWER 23 OF 34

ACCESSION NUMBER: 1975:552246 CAPLUS

DOCUMENT NUMBER: 83:152246

Triterpenoids and the related compounds from gramineae TITLE:

plants. X

Ohmoto, Taichi; Uzawa, Sumiko; Tanaka, Ryuji AUTHOR (S): Fac. Pharm., Toho Univ., Funabashi, Japan CORPORATE SOURCE:

Shoyakugaku Zasshi (1974), 28(1), 1-6 SOURCE:

CODEN: SHZAAY; ISSN: 0037-4377

Journal DOCUMENT TYPE: LANGUAGE: Japanese

For diagram(s), see printed CA Issue. GI

Fourteen triterpenoids and related compds. were isolated from AB Arundinarieae and identified to be β -amyrin (I) [559-70-6], fernenol [4966-00-1], fernenone [6090-29-5], arundoin [4555-56-0], cylindrin

[17904-55-1], epifriedelinol [16844-71-6], friedelin [559-74-0], germanicol [465-02-1], miliacin [5945-45-9], glutinol [545-24-4], glutinone [508-09-8], lupeol [545-47-1], lupenone [1617-70-5]

and taraxerol [127-22-0].

L10 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:344677 CAPLUS

DOCUMENT NUMBER: 137:166182

TITLE: Two new phenolic carboxylic acid esters from Opuntia

vulgaris

AUTHOR(S): Jiang, Jiangin; Ye, Wencai; Chen, Zhen; Lou,

Fengchang; Min, Zhida

CORPORATE SOURCE: Department of Phytochemistry, China Pharmaceutical

University, Nanjing, 210038, Peop. Rep. China

SOURCE: Journal of Chinese Pharmaceutical Sciences (2002),

11(1), 1-3

CODEN: JCHSE4; ISSN: 1003-1057

PUBLISHER: Beijing Medical University, School of Pharmaceutical

Sciences

DOCUMENT TYPE: Journal LANGUAGE: English

GI

$$H_2C$$
— CO — OBu
 HO — CH_2 — CO_2H
 OH

Two new phenolic carboxylic acid esters Bu eucomate (e.g. I) and Me eucomate and six known compds. eucomic acid, 3- β -acetyl-taraxerol, friedelin, lupenone, Me linoleate and Me oleate were isolated from the stems of Opuntia vulgaris Mill(Cactaceae). Their structures were determined on the basis of spectral methods. All known compds. except friedelin were isolated for the first time from this plant.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:146761 CAPLUS

DOCUMENT NUMBER: 137:30534

TITLE: Sesquiterpene polyol esters and triterpenes from

Celastrus punctatus

AUTHOR(S): Kuo, Yao-Haur; Li, Shyh-Yuan; Shen, Ya-Chin; Huang,

Hui-Chi; Hsu, Ya-Wen; Tseng, Rong-Jeng; Ou, Jun-Chih;

Chen, Chieh-Fu

CORPORATE SOURCE: National Research Institute of Chinese Medicine,

Taipei, 112, Taiwan

SOURCE: Chinese Pharmaceutical Journal (Taipei, Taiwan)

(2001), 53(5), 257-268

CODEN: CPHJEP; ISSN: 1016-1015

PUBLISHER: Pharmaceutical Society of Republic of China

DOCUMENT TYPE: Journal LANGUAGE: English

AB Five sesquiterpene polyol esters with β -dihydroagarofuran including

 1β -acetoxy- 8β , 9α -dibenzoyloxy- 6α -hydroxy- 2β

 $(\alpha-methylbutanoyloxy)-\beta-dihydroagarofuran (1),$

 1β -acetoxy- 8β , 9α -dibenzoyloxy- 4α , 6α -dihydroxy-

 2β -(α -methylbutanoyloxy)- β -dihydroagarofuran (2),

 1β -acetoxy- 2β , 8β , 9α -tribenzoyloxy- 6α -hydroxy-

 β -dihydroagarofuran (3), 1β -acetoxy- 2β , 8β , 9α -tribenzoyloxy-4, 6α -dihydroxy- β -dihydroagarofuran (4) and

celahin-D (5), as well as five triterpenes including friedelin

(6), lupeol (7), lupenone (8), betulin (9) and lup-20(29)-en-3 β ,30-diol (10) were isolated from the EtOH extract of the stems of Celastrus punctatus. The structures of compds. 1 to 10 were established on the basis of spectral anal. Biol. evaluation revealed that these compds. were not highly cytotoxic against KB, Hepa-3B, Hela and COLO-205 cancer cells.

REFERENCE COUNT:

THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:39190 CAPLUS

DOCUMENT NUMBER:

136:366382

TITLE:

Studies on chemical constituents of Adenophora

wawreana

AUTHOR(S):

Zhao, Kuijun; Liu, Suolan; Yang, Jun; Li, Xiuqing; Yan, Xiaolin; Zheng, Chenggui; Tu, Pengfei; Chen,

Hubiao

CORPORATE SOURCE:

Department of Pharmacy, Beijing Medical College of

PLA, Beijing, 100071, Peop. Rep. China Zhongcaoyao (2001), 32(11), 964-966

SOURCE:

CODEN: CTYAD8; ISSN: 0253-2670

Zhongcaoyao Zazhi Bianjibu

PUBLISHER:
DOCUMENT TYPE:

Journal

LANGUAGE:

Chinese

The chemical constituents of roots of Adenophora wawreana Zahibr. were studied. The chemical constituents were extracted and isolated systematically with solvents and silica gel chromatog. Their structures were determined by IR, 1HNMR, 13CNMR, and MS. Twelve compds. were obtained, and nine of them were identified as β -sitosteryl hexadecanoate (I), β -sitosteryl octadecanoate (II), α -amyrin acetate (III), lupeol acetate (IV), lupenone, friedelin, β -sitosterol (V), ikshusterol, and daucosterol. All of them were obtained for the first time from A. wawreana, and compds. I, II, III, IV, and V were obtained for the first time from Adenophora Fisch.

L10 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

2000:477440 CAPLUS

DOCUMENT NUMBER:

133:220150

TITLE:

A novel agarofuran sesquiterpene, celahin D from

Celastrus hindsii Benth

AUTHOR(S):

Huang, Hui-Chi; Shen, Chien-Chang; Chen, Chieh-Fu; Wu,

Yang-Chang; Kuo, Yao-Haur

CORPORATE SOURCE:

Graduate Institute of Natural Products, Kaohsiung

Medical College, Kaohsiung, 807, Taiwan

SOURCE:

Chemical & Pharmaceutical Bulletin (2000), 48(7),

1079-1080

CODEN: CPBTAL; ISSN: 0009-2363
Pharmaceutical Society of Japan

PUBLISHER:
DOCUMENT TYPE:

Journal

LANGUAGE:

English

I

GI

AB A novel agarofuran sesquiterpene polyol ester,

 1β , 2β , 6α , 15β -tetraacetoxy- 8β , 9α -

dibenzoyloxy- β -dihydroagarofuran (celahin D, I), two known analogs of

1,1 β -acetoxy-8 β ,9 α -dibenzoyloxy-4 α ,6 α -

dihydroxy- 2β -(α -methylbutanoyloxy)- β -dihydroagarofuran and

 1β -acetoxy- 8β , 9α -dibenzoyloxy- 6α -hydroxy- 2β -

 $(\alpha-methylbutanoyloxy)-\beta-dihydroagarofuran, and a known$

cytotoxic sesquiterpene pyridine alkaloid, emarginatine E, were isolated

from the stems of Celastrus hindsii Benth. Three known triterpenes,

loranthol, lupenone and friedelinol were also obtained

from the titled plant. Structural elucidation of I was established by 2D

NMR spectra.

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:52247 CAPLUS

DOCUMENT NUMBER: 132:248540

TITLE: Pentacyclic triterpenes from Chuquiraga ulicina AUTHOR(S): Flagg, Melissa L.; Valcic, Susanne; Montenegro,

Gloria; Gomez, Miguel; Timmermann, Barbara N.

CORPORATE SOURCE: Department of Pharmaceutical Sciences, College of

Pharmacy, The University of Arizona, Tucson, AZ,

85721, USA

SOURCE: Phytochemistry (1999), 52(7), 1345-1350

CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Taraxastane triterpenes, 3β -acetoxy- 6β -hydroxytaraxasta-20-ene,

 6β -hydroxytaraxasta-20-en-3-one, 6β -hydroxytaraxasta-20-ene

 3β -palmitate and 3β , 6β -dihydroxytaraxasta-20-ene, were

isolated from the CH2Cl2-MeOH extract of Chuquiraga ulicina ssp. ulicina in

addition to the known triterpenes lupeol, lupenyl acetate, lupenone

, friedelinol, 3β -acetoxy-30-nor-lupan-20-one, and

 $30-\text{nor-lupan-}3\beta-\text{ol-}20-\text{one}$.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:622986 CAPLUS

DOCUMENT NUMBER: 129:313363

TITLE: A tetracyclic diterpene and triterpenes from Euphorbia

segetalis

AUTHOR(S): Ferreira, Maria-Jose U.; Madureira, Ana Margarida;

Ascenso, Jose R.

CORPORATE SOURCE: Faculdade de Farmacia, Centro de Estudos e de Ciencias

Farmaceuticas, Universidade de Lisboa, Lisbon, 1699,

Port.

SOURCE: Phytochemistry (1998), 49(1), 179-183

CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

GI

A new tetracyclic diterpene, segetalol (I), with a novel carbon skeleton, AB has been isolated from the acetone extract of the whole plant of Euphorbia segetalis. Seven known compds. were also isolated: the pentacyclic triterpenes friedeline, lupenone, and glutinol, the tetracyclic triterpenes dammaradienol, cycloartenol and 24-methylenecycloartanol and β -sitosterol. The structure of the new compound and its derivs. have been extensively characterized by high-field NMR spectroscopic methods including 2D NMR techniques.

REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN L10 ANSWER 13 OF 34

18

Ι

ACCESSION NUMBER:

1998:211856 CAPLUS

DOCUMENT NUMBER:

128:274929

TITLE:

Cytotoxic constituents from the fruit of Diospyros

ferrea

AUTHOR (S):

Kuo, Yao-Haur; Li, Shyh-Yuan; Shen, Chien-Chang; Yang, Li-Ming; Huang, Hui-Chi; Liao, Wen-Bin; Chang, Chi-I.;

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS

Kuo, Yueh-Hsiung; Chen, Chieh-Fu

CORPORATE SOURCE:

SOURCE:

Natl. Res. Inst. Chinese Med., Taipei, 11221, Taiwan Chinese Pharmaceutical Journal (Taipei) (1997), 49(4),

207-216

CODEN: CPHJEP; ISSN: 1016-1015

PUBLISHER:

Pharmaceutical Society of Republic of China

DOCUMENT TYPE:

Journal English LANGUAGE: AB

Two naphthoquinones, isodiospyrin (I), and 8'-hydroxyisodiospyrin (II), 6 triterpenes, friedelin, epifriedelinol, lupeol, lupenone , betulin and $lup-20(29)-en-3\beta,30-diol$, and 2 sterols, β -sitosterol and stigmasterol, were isolated from the n-hexane extract of the fruit of D. ferrea. All of these compds. were evaluated for in vitro cytotoxicity in 4 cancer cell lines. I and II had strong cytotoxicity against Hep-3B, KB, COLO-205 and HeLa cells (ED50 = 0.17, 1.72, 0.16 and 0.21 $\mu q/mL$ for I; ED50 = 1.31, 1.75, 1.96 and 1.79 $\mu g/mL$ for II).

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS 20 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L10 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:462657 CAPLUS

TITLE: Comparative analysis of triterpenoids from Mikania

cordifolia collected from four different locations

AUTHOR(S): Abrao de Oliveira, Patricia; Turatti, Izabel Cristina

Casanova; Rodrigues de Oliveira, Dioneia Camilo

CORPORATE SOURCE: Departamento de Quimica, Faculdade Filosofia, Ciencias

e Letras de Ribeirao Preto, Universidade de Sao Paulo,

Brazil

SOURCE: Revista Brasileira de Ciencias Farmaceuticas (2006),

42(4), 547-552

CODEN: RBCFFM; ISSN: 1516-9332

PUBLISHER: Universidade de Sao Paulo, Faculdade de Ciencias

Farmaceuticas

DOCUMENT TYPE: Journal LANGUAGE: English

The species Mikania cordifolia is distributed across America and widely found throughout Brazilian territory, where is popularly used against snake bites. Methanolic and dichloromethanic exts. prepared from M.

cordifolia Robinson collected from four different locations in Brazil were submitted to liquid-liquid extraction and the hexanoic phase and residues

obtained

from this step were analyzed for triterpenoids by gas chromatog. The specimens from Ribeirao Preto-SP and Sao Carlos-SP showed similar triterpenoid composition: α -amyrin, lupeol, lupenone, α -amyrin acetate, β -amyrin acetate, lupeol acetate, taraxasterol acetate, campesterol and β -sitosterol. Besides these triterpenoids, the specimen from Campos de Jordao-SP presented 11-oxours-12-ene, 11-oxoolean-12-ene and taraxerol acetate, and from Monte Verde, epitaraxerol e taraxerol acetate. The triterpene friedelin

could be found in specimens from Ribeirao Preto and Sao Carlos.

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILAB

THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:513550 CAPLUS

DOCUMENT NUMBER: 141:76694

TITLE: A composition containing triterpenoid saponins

extracted from bamboo, and the preparation method and

use thereof

INVENTOR(S): Zhang, Ying; Wu, Xiaoqin; Yu, Zhuoyu; Zhu, Yunlong;

Chen, Lingen; Luo, Shenggen

PATENT ASSIGNEE(S): Zhejiang University (Hangzhou) Leaf Bio-Technology

Co., Ltd., Peop. Rep. China; Shanghai Yunteng

Plant-Extract Science and Technology Development Co.,

Ltd.

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Chinese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.				KIN	D .	DATE		APPLICATION NO.						DATE			
FAILUI NO.				KIND DAIR				AFFLICATION NO.							DATE		
WO 2004052383					A1 20040624			WO 2003-CN309						20030428			
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CO,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
	RW:	GH,	GM,	KE,	LS.	MW.	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,

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KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                20040623 CN 2002-154401
                          A
                                                                    20021210
     CN 1506373
                                                                    20030428
                                20040630 AU 2003-231499
     AU 2003231499
                          A1
                                20050921 EP 2003-724792
                                                                    20030428
                          A1
     EP 1576958
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2006512330
                          {f T}
                                20060413 JP 2004-557744
                                                                    20030428
                          A1
     US 2006148733
                                20060706
                                            US 2005-538463
                                                                    20051123
                                           CN 2002-154401 A 20021210
PRIORITY APPLN. INFO.:
                                                                W 20030428
                                            WO 2003-CN309
     The present invention relates to an composition containing triterpenoid
AB
saponins
     extracted from Bamboo, and the preparation method and use thereof. The
     triterpenoid saponins are extracted from various parts of bamboo belonging to
     Gramineae, such as Bamboo Shavings and the like, using supercrit. CO2
    fluid extraction technol. The content of triterpenoid saponins in the
composition
     is 10-90%. The contents of friedelin and lupenone are
     5-35% and 1-10% resp. The extract has good anti-free radical, anti-oxidation,
     antitumor, hypotensive activities and the like. The extract of the present
     invention can be useful as therapeutic drugs or functional foods for the
     treatment or prevention of cardiovascular and cerebral vascular diseases,
     as well as for the treatment of tumor, and useful in cosmetic field.
                     CAPLUS COPYRIGHT 2007 ACS on STN
L10 ANSWER 3 OF 34
ACCESSION NUMBER:
                         2004:262878 CAPLUS
DOCUMENT NUMBER:
                         141:363075
                         Chemical constituents from Terminalia glabrescens
TITLE:
                         Garcez, Fernanda R.; Garcez, Walmir S.; Miguel, Daniel
AUTHOR(S):
                         L. S.; Serea, Alessandro A. T.; Prado, Fabiana C.
CORPORATE SOURCE:
                         Departamento de Quimica, Centro de Ciencias Exatas e
                         Tecnologia, Universidade Federal de Mato Grosso do
                         Sul, Campo Grande, 79070-900, Brazil
                         Journal of the Brazilian Chemical Society (2003),
SOURCE:
                         14(3), 461-465
                         CODEN: JOCSET; ISSN: 0103-5053
                         Sociedade Brasileira de Quimica
PUBLISHER:
                         Journal
DOCUMENT TYPE:
                         English
LANGUAGE:
     A new oleanane-type triterpene (3β,6β,23,28-tetrahydroxyolean-12-
AB
     ene) was isolated from the leaves of Terminalia glabrescens, together with
     ursolic, 2\alpha-hydroxyursolic, oleanolic, maslinic, arjunolic,
     sumaresinolic and asiatic acids, squalene, phytol, sitosterol-3-0-\beta-D-
     glucopyranoside and n-alkanes. Friedelin, taraxerol, lupeol,
     lupenone, betulin, betulone, betulinic acid, arjunglucoside I,
     stigmastane-3\beta, 6\alpha-diol, \beta-sitosterol, (-) catechin,
     \beta-D-pyranotagatose, \beta-D-furanofructose and \alpha-D-
     furanofructose were obtained from the trunk bark.
                               THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         21
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L10 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
                         2003:592477 CAPLUS
                         139:304563
DOCUMENT NUMBER:
                         Flavonoid and triterpenes from Stigmaphyllon paralias
TITLE:
                         David, Jorge M.; Santos, Fatima A.; Guedes, Maria
AUTHOR(S):
                         Lenise da S.; David, Juceni P.
                         Instituto de Quimica, Universidade Federal da Bahia,
CORPORATE SOURCE:
                         Salvadore-BA, 40170-290, Brazil
```

Quimica Nova (2003), 26(4), 484-487

CODEN: QUNODK; ISSN: 0100-4042

Sociedade Brasileira de Quimica

SOURCE:

PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: Portuguese

Stigmaphyllon paralias is a herb belonging to the family Malpighiaceae that occurs in sand soil of Brazilian "restinga". This is the first report regarding phytochem. study with this species. The hexane extract of the aerial parts of plant afforded the triterpenes friedelin, lupenone, $3-oxo-\alpha$ -amyrin and $3-oxo-\beta$ -amyrin, the mixture of α -amyrinyl palmitate and stearate, lupeol and 3,4-seco-friedelan-3-oic acid. The AcOEt extract yielded the flavonoid luteolin-7-rutinoside. All compds. were characterized by anal. of spectrometric data and the fatty acids esterified with α -amyrin were identified by GC/MS of Me derivs. of transesterified products. This is the first natural occurrence of 3,4-seco-friedelan-3-oic acid and the 13C NMR spectral data were unequivocally assigned by two-dimensional

techniques. This work also permitted to correct the 13C NMR resonances attributed to Me groups C-26 and C-27 of friedelin.

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:878092 CAPLUS

DOCUMENT NUMBER: 139:81998

TITLE: Study on constituents of latex: triterpenoids of

Euphorbia tirucalli

AUTHOR(S): Fujita, Maki; Oka, Hanae; Arai, Yoko; Masuda, Kazuo;

Takano, Akihito; Shiojima, Kenji

CORPORATE SOURCE: Showa Pharmaceutical University, Machida, Tokyo,

194-8543, Japan

SOURCE: Natural Medicines (Tokyo, Japan) (2002), 56(4), 160

CODEN: NMEDEO; ISSN: 1340-3443
Japanese Society of Pharmacognosy

PUBLISHER: Japanese Sc DOCUMENT TYPE: Journal

LANGUAGE: Journal English

The normal hexane extract of Euphorbia tirucalli was chromatographed on silica gel yielding several fractions. Parrafins from fraction 1 were mixts. of C23H48 to C31H64, while fatty acid esters from fraction 2 were esters of compound euphol and tirucallol. Three acetates of euphol,

tirucallol and lupeol and two ketones, lupenone and

friedelin were detected in fraction 3. Triterpenoid alcs. I, II and glutinol were identified from the alc. fraction of fraction 4.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:512184 CAPLUS

DOCUMENT NUMBER: 137:291618

TITLE: Furocoumarins, terpenes and sterols from Esenbeckia

ovata Kunth

AUTHOR(S): Rios, Maria Yolanda; Delgado, Guillermo

CORPORATE SOURCE: Centro de Investigaciones Quimicas, Universidad

Autonoma del Estado de Morelos, Cuernavaca, 62210,

Mex.

SOURCE: Biochemical Systematics and Ecology (2002), 30(7),

697-699

CODEN: BSECBU; ISSN: 0305-1978

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

60

AB Dried leaves from Esenbeckia ovata Kunth (Rutaceae) were exhaustively

extracted to provide 145 g of extract that was chromatographed over silica gel

using mixts. of n-hexane-Et acetate as eluent. This procedure yielded friedelin, lupenone, caryophyllene β -oxide,

lupenol, β-sitosterol, bergapten, isopimpinellin, xanthotoxin,

phellopterin, and cryptomeridiol. The finding of bergapten, isopimpinellin, xanthotoxin and phellopterin in E. ovata characterizes this species as being chemical in accordance with other species of Esenbeckia genus and the Rutaceae family.

14

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

1940:2698 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 34:2698

ORIGINAL REFERENCE NO.: 34:404h-i,405a-c

Cerin and friedelin. V. Study of friedonic TITLE:

acid

Drake, Nathan L.; Wolfe, John K. AUTHOR (S):

Journal of the American Chemical Society (1939), 61, SOURCE:

3074 - 8

friedelin must contain in the unit of structure

CODEN: JACSAT; ISSN: 0002-7863

Journal DOCUMENT TYPE: Unavailable LANGUAGE:

For diagram(s), see printed CA Issue. GI

cf. C. A. 30, 7572.2. Details are given of the preparation of friedonic acid AB (I) (cf. C. A. 31, 7571.9) in 48% yield. In some expts. an isomer (II), m. 126-7°, is obtained; this also results in small yield by treating I with EtONa in EtOH for 48 hrs. I and Me2SO4 with MeONa in MeOH or CH2N2 or the Na salt with MeI give the Me ester (III), m. 157-8°; this also results from II, Me2SO4 and MeONa. Heating I in an atmospheric of N for 2.5 hrs. at 250° gives norfriedelene (IV), C29H48, m. 228.5-30°; 1 mole each of CO2 and H2O are lost in the reaction; a yellow color with C(NO2)4 indicates unsatn.; catalytic reduction of IV gives norfriedelane, m. 220-1°, needles having a slight oblique extinction (about 3.2°). Oxidation of III with KMnO4 in AcOH gives norfriedonic acid (V), C29H48O3, m. 215-17°; Me ester (VI), m. 166-7°; oxime, m. 270.5-3° (Me ester, m. 193-5°); III and 2,4-(O2N)2C6H4NHNH2 give the 2,4dinitrophenylhydrazone of VI, bright yellow, m. 233-4°. SOC12, refluxed for 30 min., give an amorphous chloride, which is catalytically reduced to norfriedelanylformaldehyde (VII), C30H50O, m. 222-5° (prisms with a slight oblique extinction, ca. 19.4°); oxime, m. 255-9°; 2,4-dinitrophenylhydrazone, bright yellow, m. 312-14°. VII and CrO3 in AcOH give norfriedelanylformic acid, C30H50O2, m. 307-8°; Me ester, m. 230-1.5°. I shows an absorption maximum at 2900 A. (log & 1.55); the absorption curve in cyclohexane (1%) is given; this confirms the earlier belief that I is not an α , β -unsatd. ketone. The data indicate that I is an ε-ketone, whose CO group is highly sterically hindered and that

CAPLUS COPYRIGHT 2007 ACS on STN L21 ANSWER 1 OF 2

ACCESSION NUMBER: 2005:457706 CAPLUS

DOCUMENT NUMBER: 143:332699

Quantitative Analysis of Triterpenoid TITLE:

Friedelin in Bamboo Bark (Zhuru) by

GC

Yao, Xiaobao; Wu, Xiaoqin; Zhang, Ying AUTHOR (S):

College of Bio-system Engineering and Food Science, CORPORATE SOURCE:

Zhejiang University, Hangzhou, 310029, Peop. Rep.

China

Yaowu Fenxi Zazhi (2004), 24(4), 387-390 SOURCE:

CODEN: YFZADL; ISSN: 0254-1793

Yaowu Fenxi Zazhi Bianji Weiyuanhui PUBLISHER:

DOCUMENT TYPE: Journal Chinese LANGUAGE:

The extraction method and quant. anal. of the pentacyclic triterpenoid AB

friedelin from Bamboo bark (Zhuru) by GC were established.

Bamboo bark was extracted in Soxhlet using hexane as extraction solvent for

8 h, the chromatog. anal. was performed using HP-5 column (5% Ph Me

siloxane, 30 m+0.25 mm+0.25 μ m) with FID detector and the

column temperature was programmed from 140 degree C to 280 degree C (holding

for

22 min) at 20 degree C·min-1. The content of friedelin in bamboo bark of Phyllostachys nigra var. henonis was 0.688%. The lower limit of detectability was 1.01 µg·mL-1, the limit of quantitation was 4.06 µg·mL-1, the recovery was 101.1% with RSD

2.3%. The extraction method was simple and effective, and the quant. anal. was sensitive and precise with good reproducibility, which would be a quant.

parameter for quality control of Bamboo bark.

L21 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:466582 CAPLUS

DOCUMENT NUMBER: 117:66582

Triterpenoid ketones from Lingnania chungii McClure: TITLE:

arborinone, friedelin and glutinone

Akihisa, Toshihiro; Yamamoto, Kazuhiro; Tamura, AUTHOR(S):

Toshitake; Kimura, Yumiko; Iida, Takashi; Nambara,

Toshio; Chang, Frederic C.

Coll. Sci. Technol., Nihon Univ., Tokyo, 101, Japan CORPORATE SOURCE:

Chemical & Pharmaceutical Bulletin (1992), 40(3), SOURCE:

789-91

CODEN: CPBTAL; ISSN: 0009-2363

Journal DOCUMENT TYPE: English LANGUAGE:

The powder coating of a bamboo, Lingnania chungii (=Bambusa AB chungii) was found to be a rich source of the 3-oxo pentacyclic triterpenes (25% on the recovery basis by chromatog. on silica gel) which contained friedelin, arborinone and glutinone as the major components accompanied by minor amts. of α - and β -amyrenones. A simple procedure for isolation of friedelin is described. All proton and

carbon-13 NMR signals for arborinone, friedelin and glutinone were

assigned.

L22 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:563783 CAPLUS

DOCUMENT NUMBER: 89:163783

TITLE: Terpenoids and related compounds: part XV.

 3α -Hydroxyfriedel-2-one and 2β -

acetoxyfriedel-3-one (epicerin acetate), two new pentacyclic triterpenoids from cork waste, their partial syntheses and one-step conversions to

friedelin

AUTHOR(S): Talapatra, Sunil K.; Pradhan, Dilip K.; Talapatra,

Bani

CORPORATE SOURCE: Dep. Chem., Univ. Coll. Sci., Calcutta, India

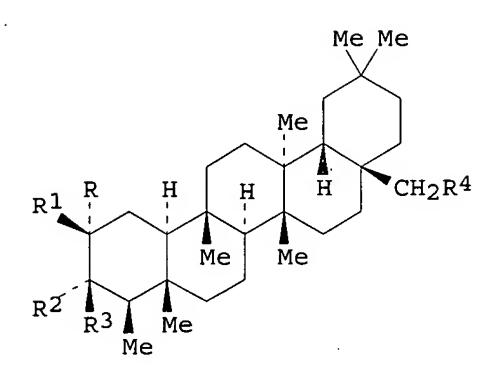
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1978),

16B(5), 361-5

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal

LANGUAGE: English



The new triterpenes I (RR1 = O, R2 = OH, R3 = R4 = H; R = R4 = H, R1 = OAc, R2R3 = O) were isolated from the bark of Quercus suber and their structures determined on the basis of their IR, NMR, and mass spectra and by chemical correlations with friedelin and cerin. Friedelin, cerin, canophyllol (I, R = R1 = H, R2R3 = O, R4 = OH), 3-hydroxyfriedel-3-en-2-one, and betulinic acid were also isolated.

L22 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:418903 CAPLUS

DOCUMENT NUMBER: 83:18903

TITLE: Photochemical reaction of Friedelin.

Ι

Formation of an ε, ζ -unsaturated aldehyde

AUTHOR(S): Shirasaki, Hidekazu; Aoyagi, Reiko; Tsuyuki, Takahiko;

Takahashi, Takeyoshi; Stevenson, Robert

CORPORATE SOURCE: Fac. Sci., Univ. Tokyo, Tokyo, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1975),

48(3), 1073-4

CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal LANGUAGE: English

AB Friedelin in C5H12 or EtOH was irradiated using a high-pressure Hg lamp under a N atmospheric Among the photolysis products, 10β -(2-formylethyl)- 5α -vinyl-des-A-friedelane (I) was isolated. Upon oxidation with Ag2O, I afforded putranjivic acid.

L22 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:35079 CAPLUS

DOCUMENT NUMBER: 80:35079

TITLE: Neutral constituents of Pachysandra terminalis. V.

Structures of pachysandiol B and pachysonol, new

Friedelin-type triterpenes

AUTHOR(S): Kikuchi, Tohru; Takayama, Masaharu; Toyoda, Tatsuo;

Arimoto, Masahiro; Niwa, Mineo

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1973), 21(10),

2243-51

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

The structures of pachysandiol-B and pachysonol, new friedelin type triterpenes isolated from the neutral fraction of P. terminalis (Buxaceae), were investigated and assigned to the formulae I and II,

resp., on the basis of chemical and spectroscopic evidence.

L22 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1974:27402 CAPLUS

DOCUMENT NUMBER: 80:27402

TITLE: Neutral constituents of Pachysandra terminalis. VI.

Isolation and structure determination of

pachysantriol, a new Friedelin-type

triterpene

AUTHOR(S): Kikuchi, Tohru; Niwa, Mineo

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, Japan

SOURCE: Yakugaku Zasshi (1973), 93(10), 1378-82

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal LANGUAGE: Japanese

GI For diagram(s), see printed CA Issue.

AB The structure of pachysantriol, a new triterpenetriol isolated

from one of the neutral fractions of P. terminalis was I on the basis of

chemical and spectroscopic evidence.

L22 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1971:548514 CAPLUS

DOCUMENT NUMBER: 75:148514

TITLE: Isolation of friedelin from

Secamone afzelii

AUTHOR(S): El-Said, F.; Sofowora, E. A.; Salami, M. A.; Sainsbury

Μ.

CORPORATE SOURCE: Fac. Pharm., Univ. Ife, Ife, Nigeria

SOURCE: Phytochemistry (Elsevier) (1971), 10(8), 1940

CODEN: PYTCAS; ISSN: 0031-9422

DOCUMENT TYPE: Journal LANGUAGE: English

AB Friedelin (I) was isolated from roots of S. afzelii. This is

the 2nd report of I occurrence in Asclepiadaceae.

L22 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:488616 CAPLUS

DOCUMENT NUMBER: 71:88616

ORIGINAL REFERENCE NO.: 71:16464h,16465a

TITLE: Biogenetic path from squalene to friedelin

AUTHOR(S): Sengupta, Pasupati

CORPORATE SOURCE: Univ. Kalyani, Kalyani, India

SOURCE: Bulletin of the National Institute of Sciences of

India (1968), No. 37, 1-4

CODEN: BNSIAE; ISSN: 0027-9528

DOCUMENT TYPE: Journal

LANGUAGE: English

The biosynthetic path for the formation of the oleanene skeleton from AB squalene type intermediate is well understood. The intermediate cation is supposed to be formed 1st from the attack of aOH+ radical on squalene and it is this cation that will form germanicol, β -amyrin, and δ -amyrin. Also from this cation the following naturally occurring pentacyclic triterpenoids of the modified oleanane skeleton can be formed: taraxerol, multiflorenol, arundoin, glutinone, and friedelin. occurrence of these triterpenoids in different plants suggests a highly selective control in the backbone rearrangement in plants. However these transformations have not yet been achieved in the laboratory. On the contrary, in the laboratory the rearrangement takes the reverse course. Friedel-3-ene has been converted to a mixture of olean-12-ene and olean-13(18)-ene. In some of these transformations no intermediate can be isolated even under comparatively mild conditions, e.g. conversion of multiflorene to olean-12-ene, while others, e.g. friedel-3-ene, will be completely transformed only under drastic conditions. The mechanism of these transformations and also the structures of other naturally occurring triterpenoids that may very rationally be conceived to have been derived from the intermediate cations in the biogenetic path are discussed in detail.

L22 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:25749 CAPLUS

DOCUMENT NUMBER: 70:25749

ORIGINAL REFERENCE NO.: 70:4811a,4814a

TITLE: Chemical components of Quercus stenophylla. I.

Isolation of friedelin from the

leaves of Q. stenophylla

AUTHOR(S): Onishi, Yoshiaki; Hanaoka, Miyoji

CORPORATE SOURCE: Osaka Univ., Toyonaka, Japan

SOURCE: Yakugaku Zasshi (1968), 88(9), 1244-5

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal LANGUAGE: Japanese

Dried leaves (200 g.) of Q. stenophylla are extracted with 800 ml. AcOEt, the extract evaporated, and 12 g. residue obtained. The residue (4 g.) is warmed with 20 ml. C6H6, filtered, the filtrate chromatographed on Al2O3, and the column eluted with C6H6 to give 220 mg. friedelin, needles, m. 250-4° (AcOEt).

L22 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1966:68022 CAPLUS

DOCUMENT NUMBER: 64:68022 ORIGINAL REFERENCE NO.: 64:12740c-g

TITLE: Base-catalyzed oxidation of friedelin with

molecular oxygen

AUTHOR(S): Nishihama, Tadaaki; Takahashi, Takeyoshi

CORPORATE SOURCE: Univ. Tokyo

SOURCE: Bulletin of the Chemical Society of Japan (1966),

39(1), 200

CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 64:68022
GI For diagram(s), see printed CA Issue.

AB A solution of friedelin (I) in tert-BuOH containing a 10 molar excess of tert-BuOK was treated 40 hrs. at room temperature with O. The residue was methylated with CH2N2 to give, after chromatographic separation, the unsatd. ester II, m. 214.5-15°. Oxidation of II with O3 and H2O2 gave III (not isolated), which on partial reduction with LiAlH4 followed by treatment with HCl afforded the lactone IV, m. 269°. IV was obtained by another route. 3-Oxo-3a-oxa-A-homofriedelane (V) was converted by the Barbier-Wieland procedure to 2-oxo-3-oxafriedelane (VI),

m. 263-6°. VI with PhMgBr afforded 2-phenyl-3-oxa-1-friedelene (VII), m. 223-5°. Oxidation of VII with CrO3 furnished III (R = Bz) and on partial reduction with LiAlH4 and subsequent treatment with dilute HCl this gave IV, m. 273-3.5°. IV prepared by either procedure gave 1 spot on a thin-layer chromatogram while alkaline saponification of III (R =

followed by acidification afforded a γ -lactone which showed 1 more spot on the same chromatogram. Thus the configuration at C-10 in IV is the same as that of I and partial isomerization at C-10 takes place under alkaline conditions. On conversion of V to IV the configuration at C-4 is untouched. These observations, together with N.M.R. spectral data (reported) establish the constitution and stereochemistry of II. Failure to isolate a γ -lactone on normal ozonolysis of this unsatd. ester eliminated the alternative structure VIII.

L22 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1965:453986 CAPLUS

DOCUMENT NUMBER: 63:53986
ORIGINAL REFERENCE NO.: 63:9771g-h

Bz),

AUTHOR (S):

TITLE: Friedelin and related compounds. VII.

Bromine and N-bromosuccinimide oxidation of the

saturated hydrocarbon, friedelane Kohen, Fortuene; Stevenson, Robert

CORPORATE SOURCE: Brandeis Univ., Waltham, MA

SOURCE: Journal of Organic Chemistry (1965), 30(7), 2479-80

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: English

AB cf. CA 58, 6799h. The saturated hydrocarbon friedelane (I) was oxidized by N-bromosuccinimide (II) to friedel-18-ene (III); and in view of the likelihood that the function of II was to provide mol. Br, the action of Br in CCl4 on I was investigated. The production of III, m. 241-3°, [α]D 16° (c 1.1) demonstrated that the intermediacy of the succinimide radical was unessential in this highly selective oxidation. The yield of III from I was shown to be 40% by peracid titration and isolation of 18,19-epoxyfriedelane, m. 254-6°, [α]D 36° (c 0.66), Rf 0.60 (C6H6), together with the unstable 18-bromofriedelane, m. 239-40° [α]D 26° (c 0.35), Rf 0.72 (C6H6-silica gel), converted by chromatography on neutral Al2O3 or Florisil to III. The discrepancies and poor reproducibility in the bromination of friedelin may be attributed to accompanying halogenation at C-18.

L22 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1961:137678 CAPLUS

DOCUMENT NUMBER: 55:137678

ORIGINAL REFERENCE NO.: 55:26018h-i,26019a

TITLE: Friedelin and related compounds. IV. A

convenient isolation of friedelin

AUTHOR(S): Stevenson, Robert

CORPORATE SOURCE: Brandeis Univ., Waltham, MA

SOURCE: Journal of Organic Chemistry (1961), 26, 2142-3

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB cf. CA 54, 24849a. Friedelin (I) was readily obtained crude from "smoker wash solids," obtained as a byproduct in the manufacture of corkboard by solvent extraction; purification by chromatographic or recrystn. procedures proved troublesome. NaOAc (1.5 g.) and 1.5 g. NH2OH.HCl in 20 cc. alc. filtered and the filtrate refluxed 1 hr. with 5 g. I in 100 cc. C6H6 gave 3.3 g. friedelin oxime (II), plates, m. 289-92° or 298-302° (in vacuo). I (200 mg.) in 7 cc. C5H5N refluxed 45 min. with 200 mg. NH2OH.HCl gave 200 mg. II. C6H6 (50 cc.) and 50 cc. AcOH left 1 hr. with 925 mg. II in 50 cc. 5% NaNO2, the layers separated, the C6H6 washed, and

evaporated gave 730 mg. 3-nitriminofriedelane (III), felted needles, m. $224-6^{\circ}$ (decomposition) (CHCl3-MeOH), [α]D 32° (c 2.2, CHCl3). III (90 mg.) in 20 cc. dioxane refluxed overnight with 5 cc. H2O gave 70 mg. I, needles, m. 255-62° (EtOAc). The cork resin extracted with alc. in a Soxhlet extractor gave 22 g. brown solid, which in 375 cc. C5H5N refluxed 1 hr. with 24 g. NH2OH.HCl in 35 cc. H2O gave 9 g. pure II. Treatment of 20 g. II with 5% NaNO2 gave 16.2 g. III and refluxing in dioxane and H2O gave 13.1 g. I.

L22 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:218096 CAPLUS

TITLE: Cytotoxic activity of derivatives of the triterpene

friedelin.

AUTHOR(S): Shelledy, Linda; Hopper, Amanda L.; Setzer, William N.

CORPORATE SOURCE: Department Chemistry, University Alabama, Huntsville,

AL, 35899, USA

SOURCE: Book of Abstracts, 211th ACS National Meeting, New

Orleans, LA, March 24-28 (1996), CHED-249. American

Chemical Society: Washington, D. C.

CODEN: 62PIAJ

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

We have found a number of seco-A triterpenes to exhibit in-vitro cytotoxic activity against human tumor-derived cell lines. In addition, these materials are topoisomerase II inhibitors. In this work, we have isolated friedelin, 1, from cork, carried out a Baeyer-Villiger oxidation to give the lactone 2, and subsequently hydrolyzed the lactone to give the A-ring-opened triterpene 3. These materials have been tested for cytotoxic activity against Hep-G2 human hepatocellular carcinoma cells.

L22 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1995:14502 CAPLUS

DOCUMENT NUMBER:

122:187820

TITLE:

Preparation of friedelin analogs as

bactericides, fungicides, etc.

INVENTOR (S):

Moiteiro, Cristina Maria Martin; Rosa, Maria Regina

ADDITENTATION NO

ם תיע עים

Tavares; Marcelo, Curto Maria Joao

PATENT ASSIGNEE(S):

Instituto Nacional de Engenharia e Tecnologia

Industrial, Port.

SOURCE:

PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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OTHER SOURCE(S):

MARPAT 122:187820

GI

Title compds., e.g. I and II (R1 = trialkyl- or triphenylsilyl, etc.; R2 = H, ester residue, cation) were prepared as bactericides, fungicides, etc. (no data). Thus, friedelin (isolation from cork smoker wash solids given) was treated with MeC(:NSiMe3)OSiMe3, (Me2N)3P(O), and Na to give I (R1 = SiMe3) which was treated with OsO4 and the product treated with NaHSO4 and Florisil to give III. The latter was treated with periodic acid to give II (R2 = H).

L22 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1992:466582 CAPLUS

DOCUMENT NUMBER:

117:66582

TITLE:

Triterpenoid ketones from Lingnania chungii McClure:

arborinone, friedelin and glutinone

AUTHOR(S):

SOURCE:

Akihisa, Toshihiro; Yamamoto, Kazuhiro; Tamura, Toshitake; Kimura, Yumiko; Iida, Takashi; Nambara,

Toshio; Chang, Frederic C.

CORPORATE SOURCE:

Coll. Sci. Technol., Nihon Univ., Tokyo, 101, Japan Chemical & Pharmaceutical Bulletin (1992), 40(3),

789-91

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: LANGUAGE: Journal English

The powder coating of a bamboo, Lingnania chungii (=Bambusa chungii) was found to be a rich source of the 3-oxo pentacyclic triterpenes (25% on the recovery basis by chromatog. on silica gel) which contained friedelin, arborinone and glutinone as the major components accompanied by minor amts. of α - and β -amyrenones. A simple procedure for isolation of friedelin is described. All proton and carbon-13 NMR signals for arborinone, friedelin and glutinone were assigned.

L22 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1991:164556 CAPLUS

DOCUMENT NUMBER:

114:164556

TITLE: AUTHOR(S):

Redetermination of the structure of friedelin Declercq, Jean Paul; Van Puyvelde, Luc; De Kimpe,

Norbert; Nagy, Milan; Verhegge, Georges; De Vierman,

Roland

CORPORATE SOURCE:

Lab. Chim. Phys. Cristallogr., Univ. Cathol. Louvain,

Louvain-la-Neuve, B-1348, Belg.

SOURCE:

Acta Crystallographica, Section C: Crystal Structure

Communications (1991), C47(1), 209-11

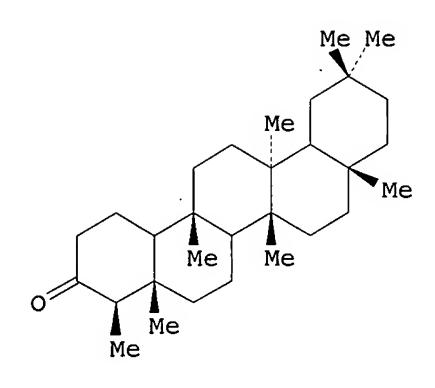
CODEN: ACSCEE; ISSN: 0108-2701

DOCUMENT TYPE:

LANGUAGE:

GI

Journal English



The crystal structure of D:A-Friedooleanan-3-one (I) was determined Friedelin was isolated for the first time from Harungana madagascariensis

Lam. ex Poir (Clusiaceae). Recently, the crystal structure was described [Mo, Winther & Scrimgeour (1989)], but with relatively low precision (R = 0.133 for 2201 reflections). Our data are of much better quality: means e.s.d s of bond distances and angles are 0.003 Å and 0.2° here, compared with 0.009 Å and 0.5° in the earlier study. A least-squares mol. fit was also computed between our results (a), the previous x-ray results (b) and calculated force-field coordinates (c). The final root-mean-square deviations, excluding H atoms are: (a)-(b): r.m.s. = 0.096 Å. Differences between the observed and the calculated coordinates are not due to the precision of the crystal structure detns.

L22 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

Ι

ACCESSION NUMBER: 1990:235638 CAPLUS

DOCUMENT NUMBER: 112:235638

TITLE: Acetoxylation of friedelin by lead (IV)

acetate and anti-octant behavior of 2-acetoxyketones

AUTHOR(S): Dutta, G.; Bose, S. N.

CORPORATE SOURCE: Dep. Chem., North Bengal Univ., Darjeeling, 734 430,

India

SOURCE: Indian Journal of Chemistry, Section B: Organic

Chemistry Including Medicinal Chemistry (1989),

28B(11), 975-7

CODEN: IJSBDB; ISSN: 0376-4699

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:235638

GΙ

Four products were isolated by BF3.0Et2-catalyzed Pb(OAc)4 acetoxylation of friedelin. Three of them were characterized as 2α -acetoxyfriedelin (I; R = R1 = H, R2 = OAc), 4α -acetoxyfriedelin (I; R = OAc, R1 = R2 = H) and 2β , 4α -diacetoxyfriedelin (I; R = R1 = OAc, R2 = H). The former was efficiently converted into pachysandiol-A (II). Chiroptical measurements (CD) of these 2-acetoxyketones show considerable antioctant behavior.

L22 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1987:15790 CAPLUS

DOCUMENT NUMBER:

106:15790

TITLE:

Friedelin and friedelinol from Clusia

ellipticifolia

AUTHOR(S):

SOURCE:

Salama, Ahmed Mohamed

CORPORATE SOURCE:

Fac. Cienc., Univ. Nac. Bogota, Bogota, Colombia Revista Latinoamericana de Quimica (1986), 16(4),

117-18

CODEN: RLAQA8; ISSN: 0370-5943

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Friedelin and friedelin-3 β -ol were isolated from the

petroleum ether extract of the stem bark of C. ellipticifolia. The isolated compds. were identified by chemical and spectroscopic

methods and by correlation with known compds.

L22 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1986:606298 CAPLUS

DOCUMENT NUMBER:

105:206298

TITLE:

Isolation of friedelin and

epifriedelinol from the Clusia ellipticifolia Cuatr.

stem bark

AUTHOR (S):

Salama, Ahmed Mohamed

CORPORATE SOURCE:

Dep. Farm., Univ. Nac., Bogota, Colombia

SOURCE:

Revista Colombiana de Ciencias Quimico-Farmaceuticas

(1986), 15, 99-104

CODEN: RCQFAQ; ISSN: 0034-7418

DOCUMENT TYPE:

Journal

LANGUAGE:

Spanish

AB Friedelin (freidooleanan-3-one) and epifriedelinol (friedooleanan-3 β -ol) were isolated from the stem bark of C. ellipticifolia. The compds. were identified by chemical and spectroscopic methods.

L22 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:

1982:20295 CAPLUS

DOCUMENT NUMBER:

96:20295

TITLE:

Studies on the neutral constituents of Pachysandra

terminalis Sieb. et Zucc. IX. Structures of pachysandienol-A and -B, novel-type triterpenes

related to friedelin

Kikuchi, Tohru; Yokoi, Toshio; Shingu, Tetsuro; Niwa, AUTHOR(S):

Mineo

Res. Inst. Wakan-Yaku, Toyama Med. Pharm. Univ., CORPORATE SOURCE:

Toyama, 930-01, Japan

Chemical & Pharmaceutical Bulletin (1981), 29(9), SOURCE:

2531-9

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE:

Journal English LANGUAGE:

GI

Two novel-type triperpenes, pachysandienol A and B, were isolated AB from P. terminalis and proved to have the structures I and II, resp., by means of chemical and spectroscopic studies. These are the first examples among natural products of 28-nor-16-methylfriedelane derivs.

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ACCESSION NUMBER: 1981:188648 CAPLUS

DOCUMENT NUMBER: 94:188648

Isolation of a new alkaloid TITLE:

(O-acetylretuline) and a triterpenoid (

friedelin) from Strychnos henningsii of Zaire

Angenot, Luc; Tits, Monique AUTHOR(S):

Inst. Pharm., Univ. Liege, Belg. CORPORATE SOURCE: Planta Medica (1981), 41(3), 240-3 SOURCE:

CODEN: PLMEAA; ISSN: 0032-0943

DOCUMENT TYPE: Journal

French LANGUAGE: GI

_. H Ac H Me CH₂OAc

The new alkaloid O-acetylretuline (I) was isolated from bark and ABleaves of 2 samples of S. henningsii collected in Zaire. A triterpenoid, friedelin, was also present in this African species of Strychnos.

L22 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1979:121822 CAPLUS

DOCUMENT NUMBER: 90:121822

TITLE: Application of the INDOR technique to triterpenes.

Assignments of methyl resonances of friedelin

and related triterpenes

AUTHOR(S): Kikuchi, Tohru; Shingu, Tetsuro; Yokoi, Toshio; Niwa,

Mineo

CORPORATE SOURCE: Res. Inst. Oriental Med., Toyama Med. Pharm. Univ.,

Toyama, Japan

SOURCE: Tennen Yuki Kagobutsu Toronkai Koen Yoshishu, 21st

(1978), 560-7. Hokkaido Daigaku Nogakubu: Sapporo,

Japan.

CODEN: 39NQAF

DOCUMENT TYPE:

Conference

LANGUAGE:

Japanese

GI

The Me signals of friedelin, epifriedelanol acetate, friedelanol acetate, $16\text{-}oxofriedelane}$, $16\beta\text{-}acetoxyfriedelane}$, $16\alpha\text{-}acetoxyfriedelane}$, shionone, epishionol acetate, and shionol acetate were assigned using the homonuclear INDOR technique in the presence off shift reagent tris[1,1,1,2,2,3,3-heptafluoro-7,7-dimethyl-4,6-octanedionato]praseodymium. Moreover, pachysandienol A and B (I, II, resp.) were isolated from P.terminalis and their structures determined by chemical and spectroscopic methods.

L25 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

2007:248198 CAPLUS ACCESSION NUMBER:

146:474996 DOCUMENT NUMBER:

Evaluation of Polygonum bistorta for anticancer TITLE:

potential using selected cancer cell lines

Manoharan, Karuppiah Pillai; Yang, Daiwen; Hsu, Annie; AUTHOR (S):

Huat, Benny Tan Kwong

Department of Chemistry, Faculty of Science, National CORPORATE SOURCE:

University of Singapore, Singapore, 117543, Singapore

Medicinal Chemistry (2007), 3(2), 121-126 SOURCE:

CODEN: MCEHAJ; ISSN: 1573-4064

Bentham Science Publishers Ltd. PUBLISHER:

Journal DOCUMENT TYPE: LANGUAGE: English

The chloroform and hexane fractions and their sub-fractions of Polygonum AB bistorta (Polygonaceae) were evaluated for their cytotoxic activity against P338 (Murine lymphocytic leukemia), HepG2 (Hepatocellular

carcinoma), J82 (Bladder transitional carcinoma), HL60

(Human leukemia), MCF7 (Human breast cancer), and LL2 (Lewis lung carcinoma) cancer cell lines in culture. Both the chloroform and hexane fractions and a few of their sub-fractions showed moderate to very good activity against P388, HL60, and LL2 cancer cell lines. Both active and non-active fractions were further investigated for their chemical constituents. A total of 9 compds., viz. 24(E)-ethylidenecycloartanone

(1), 24(E)-ethylidenecycloartan- 3α -ol (2), cycloartane-3,24-dione

(3), 24-methylenecycloartanone (4), friedelin (5),

 3β -friedelinol (6), β -sitosterol (7), γ -sitosterol (8),

and β -sitosterone (9) were isolated. One of the pure compds., 24(E)-ethylidenecycloartanone 1, which was obtained in sufficient quantity, was tested for its cytotoxicity against P388, LL2, HL60, and WEHI164 (Murine fibrosarcoma) cancer cell lines but was found to have no activity even at a concentration of 100 μ g/mL.

REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN L25

35

ACCESSION NUMBER: 2005:498800 CAPLUS

DOCUMENT NUMBER: 143:145584

Chemical investigations and biological studies of TITLE:

Mallotus apelta: VI- cytotoxic constituents from

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS

Mallotus apelta

Chau, Van Minh; Le, Mai Huong; Phan, Van Kiem; Nguyen, AUTHOR(S):

Hoai Nam; Jung, Joon Lee; Young, Ho Kim

Institute of Natural Products Chemistry, Vietnamese CORPORATE SOURCE:

Academy of Science and Technology, Vietnam

Tap Chi Hoa Hoc (2005), 43(1), v-vi SOURCE:

CODEN: TCHHDC; ISSN: 0378-2336

Toa Soan Tap Chi Hoa Hoc PUBLISHER: Journal; General Review DOCUMENT TYPE:

English LANGUAGE:

A review. In searching for bioactive compds. from natural products on AB cytotoxic effects against various cancer cell lines, 22 isolated compds. from Mallotus apelta were tested for their cytotoxic effects against various cancer cell lines, such as KB (human epidermoid carcinoma), FL (fibrillary sarcoma of the uterus), and Hep-2 (human hepatocellular carcinoma) cells in an in vitro assay system. Of which, Malloapelta B showed strong cytotoxic effect against three cancer cell lines as KB, FL, and Hep-2 by in vitro assay. Malloapelta B showed strong cytotoxic effect against all three cancer cell lines as KB (50% inhibitory concentration IC50, $2.12 \pm 0.01 \, \mu \text{g/mL}$), FL, and Hep-2, while the other compds. did not

show inhibitory activities with IC50 values over 50 µM.

REFERENCE COUNT: THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L25 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:537988 CAPLUS

DOCUMENT NUMBER: 129:173100

The cytotoxic activity of a Salacia liana species from TITLE:

Monteverde, Costa Rica, is due to a high concentration

to tingenone

Setzer, William N.; Setzer, Mary C.; Hopper, Amanda AUTHOR (S):

> L.; Moriarity, Debra M.; Lehrman, Ginger K.; Niekamp, Katherine L.; Morcomb, Suzanne M.; Bates, Robert B.; McClure, Kelly J.; Stessman, Chad C.; Haber, William

Department Chemistry, University Alabama, Huntsville, CORPORATE SOURCE:

AL, 35899, USA

Planta Medica (1998), 64(6), 583 SOURCE:

CODEN: PLMEAA; ISSN: 0032-0943

Georg Thieme Verlag PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

The cytotoxic activity of a Salacia species from lower montan moist forest ABat 1350 m at Monteverde, Costa Rica, was investigated. The stem bark was extracted with CHCl3 to obtain extract The crude extract showed in vitro

cytotoxic

activity against Hep-HG2 (human hepatocellular carcinoma),

H-4-II-E (rat hepatoma), and SK-Mel-28 (human melanoma) cell lines. extract was subjected to a bioactivity-directed flash chromatog. and the

following compds. were isolated: friedelin, 1-hydroxy-3,6-

dimethoxy-8-methyl-9H-xanthen-9-one, friedelan-3-on-29-al, canophyllol, 29-hydroxyfriedelan-3-one, and tingenone (cytotoxic, 0.24% of the fresh bark). In vitro cytotoxicity (IC50 values) for tingenone was 1.9, 2.7, and 1.7 μM against Hep-G2, H-4-II-E, and SK-Mel-28 cell lines, resp.

L25 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

1998:31640 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 128:32350

Friedelane Triterpenoids from Maytenus macrocarpa TITLE:

AUTHOR (S): Chavez, H.; Estevez-Braun, A.; Ravelo, A. G.;

Gonzalez, A. G.

Instituto Universitario de Bio-Organica Antonio CORPORATE SOURCE:

Gonzalez, Universidad de La Laguna, Tenerife, 38206,

Spain

Ι

Journal of Natural Products (1998), 61(1), 82-85 SOURCE:

CODEN: JNPRDF; ISSN: 0163-3864

American Chemical Society PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

GI

AB A set of friedelane triterpenoids has been isolated from the stem bark exudates of Maytenus macrocarpa. It includes a new friedelan triterpene (I), together with the known compds. friedelin, 3-oxo-29-hydroxyfriedelane, 3-oxofriedelan-25-al, and canophyllol. The structures of these compds. were elucidated by spectroscopic and chemical evidence. Complete 1H and 13C assignments were achieved by 2D NMR spectroscopy. The new compound showed weak activity against aldose reductase. It did not display antitumor activity against P-388 lymphoid neoplasm, A-549 human lung carcinoma, HT-29 human colon

carcinoma, or MEL-28 human melanoma cell lines.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:220856 CAPLUS

TITLE: A phytochemical investigation of alchornea latifolia

(euphorbiaceae).

AUTHOR(S): Shen, Xiaoming; Setzer, William N.; Zhang, Ping;

Moriarity, Debra M.; Lawton, Robert O.

CORPORATE SOURCE: Department Chemistry, University Alabama Huntsville,

Huntsville, AL, 35899, USA

SOURCE: Book of Abstracts, 211th ACS National Meeting, New

Orleans, LA, March 24-28 (1996), ORGN-252. American

Chemical Society: Washington, D. C.

CODEN: 62PIAJ

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

AB Leaves of Alchornea latifolia (Euphorbiaceae), collected from Monteverde, Costa Rica, have been extracted (chloroform extraction and ethanol extraction). The

crude exts. show in-vitro cytotoxic activity against Hep-G2 human hepatocellular carcinoma. In a search for the bioactive materials from this plant, we have isolated, purified, and structurally characterized a number of components from the crude exts. In addition to the triterpenes friedelin and taraxerone, and the sterol β -sitosterol, the A-ring-opened triterpenes 1-4 have been isolated by preparative liquid chromatog. and their structures verified by NMR spectroscopy.

L25 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:218096 CAPLUS

TITLE: Cytotoxic activity of derivatives of the triterpene

friedelin.

AUTHOR(S): Shelledy, Linda; Hopper, Amanda L.; Setzer, William N. CORPORATE SOURCE: Department Chemistry, University Alabama, Huntsville,

AL, 35899, USA

SOURCE: Book of Abstracts, 211th ACS National Meeting, New

Orleans, LA, March 24-28 (1996), CHED-249. American

Chemical Society: Washington, D. C.

CODEN: 62PIAJ

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

We have found a number of seco-A triterpenes to exhibit in-vitro cytotoxic activity against human tumor-derived cell lines. In addition, these materials are topoisomerase II inhibitors. In this work, we have isolated friedelin, 1, from cork, carried out a Baeyer-Villiger oxidation to give the lactone 2, and subsequently hydrolyzed the lactone to give the A-ring-opened triterpene 3. These materials have been tested for cytotoxic activity against Hep-G2 human hepatocellular carcinoma cells.

L25 ANSWER 7 OF 9 MEDLINE on STN ACCESSION NUMBER: 2007149868 MEDLINE

DOCUMENT NUMBER: PubMed ID: 17348850

TITLE: Evaluation of Polygonum bistorta for anticancer potential

using selected cancer cell lines.

AUTHOR: Manoharan Karuppiah Pillai; Yang Daiwen; Hsu Annie; Huat

Benny Tan Kwong

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, National

University of Singapore, Singapore.

SOURCE: Medicinal chemistry (Sh arigah, United Arab Emirates),

(2007 Mar) Vol. 3, No. 2, pp. 121-6.

Journal code: 101240303. ISSN: 1573-4064.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200705

ENTRY DATE: Entered STN: 13 Mar 2007

Last Updated on STN: 16 May 2007 Entered Medline: 15 May 2007

The chloroform and hexane fractions and their sub-fractions of Polygonum AB bistorta (Polygonaceae) were evaluated for their cytotoxic activity against P338 (Murine lymphocytic leukaemia), HepG2 (Hepatocellular carcinoma), J82 (Bladder transitional carcinoma), HL60 (Human leukaemia), MCF7 (Human breast cancer) and LL2 (Lewis lung carcinoma) cancer cell lines in culture. Both the chloroform and hexane fractions and a few of their sub-fractions showed moderate to very good activity against P388, HL60 and LL2 cancer cell lines. Both active and non-active fractions were further investigated for their chemical constituents. A total of nihe compounds, viz. 24(E)ethylidenecycloartanone (1), 24(E)-ethylidenecycloartan-3alpha-ol (2), cycloartane-3,24-dione (3), 24-methylenecycloartanone (4), friedelin (5), 3beta-friedelinol (6), beta-sitosterol (7), gamma-sitosterol (8) and beta-sitosterone (9) were isolated. One of the pure compounds, 24(E)-ethylidenecycloartanone 1, which was obtained in sufficient quantity, was tested for its cytotoxicity against P388, LL2, HL60 and WEHI164 (Murine fibrosarcoma) cancer cell lines but was found to have no activity even at a concentration of 100 microg/mL.

L25 ANSWER 8 OF 9 MEDLINE on STN

ACCESSION NUMBER: 2006460370 IN-PROCESS

DOCUMENT NUMBER: PubMed ID: 16883274

TITLE: Cytotoxic activities of chemical constituents from Mesua

daphnifolia.

AUTHOR: Ee G C L; Lim C K; Rahmat A; Lee H L

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Universiti

Putra Malaysia, 43400 Serdang, Selangor, Malaysia. Tropical biomedicine, (2005 Dec) Vol. 22, No. 2, pp.

99-102.

Journal code: 8507086. ISSN: 0127-5720.

PUB. COUNTRY: Malaysia

SOURCE:

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED;

Priority Journals

ENTRY DATE: Entered STN: 3 Aug 2006

Last Updated on STN: 12 Dec 2006

Detail chemical investigations on the stem bark of Mesua daphnifolia gave three triterpenoids and four xanthones. They are friedelin (1), friedelan-1,3-dione (2), lup-20(29) - en-3ss-ol (3), cudraxanthone G (4), ananixanthone (5), 1,3,5-trihydroxy-4-methoxyxanthone (6) and euxanthone (7). These chemical constituents were tested in vitro for their cytotoxic activities against four cell lines, MDA-MB-231 (human estrogen receptor negative breast cancer), HeLa (cervical carcinoma), CEM-SS (T-lymphoblastic leukemia) and CaOV3 (human ovarian cancer). Compound 4

showed a broad spectrum of activity against the MDA-MB-231, HeLa and CEM-SS cell lines with IC5 0 values of 1.3, 4.0 and 6.7 microg/ml respectively. Meanwhile, the other compounds 1, 2, 3, 5, 6 and 7 gave only selective activities against the cell lines.

L25 ANSWER 9 OF 9 MEDLINE on STN

1998123208 ACCESSION NUMBER: MEDLINE PubMed ID: 9461656 DOCUMENT NUMBER:

Friedelane triterpenoids from Maytenus macrocarpa. TITLE:

Chavez H; Estevez-Braun A; Ravelo A G; Gonzalez A G **AUTHOR:** Instituto Universitario de Bio-Organica, Antonio Gonzalez, CORPORATE SOURCE:

Universidad de Laguna, Tenerife, Canary Island, Spain.

Journal of natural products, (1998 Jan) Vol. 61, No. 1, pp.

SOURCE:

82-5.

Journal code: 7906882. ISSN: 0163-3864.

United States PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE:

(RESEARCH SUPPORT, NON-U.S. GOV'T)

English LANGUAGE:

Priority Journals FILE SEGMENT:

199803 ENTRY MONTH:

Entered STN: 26 Mar 1998 ENTRY DATE:

> Last Updated on STN: 26 Mar 1998 Entered Medline: 16 Mar 1998

A set of friedelane triterpenoids has been isolated from the stem bark AB exudates of Maytenus macrocarpa. It includes a new friedelan triterpene (1), together with the known compounds friedelin, 3-oxo-29-hydroxyfriedelane, 3-oxofriedelan-25-al, and canophyllol. The structures of these compounds were elucidated by spectroscopic and chemical evidence. Complete 1H and 13C assignments were achieved by 2D The new compound showed weak activity against aldose NMR spectroscopy. reductase. It did not display antitumor activity against P-388 lymphoid neoplasm, A-549 human lung carcinoma, HT-29 human colon

carcinoma, or MEL-28 human melanoma cell lines.

L25 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:248198 CAPLUS

DOCUMENT NUMBER: 146:474996

TITLE: Evaluation of Polygonum bistorta for anticancer

potential using selected cancer cell lines

AUTHOR(S): Manoharan, Karuppiah Pillai; Yang, Daiwen; Hsu, Annie;

Huat, Benny Tan Kwong

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, National

University of Singapore, Singapore, 117543, Singapore

SOURCE: Medicinal Chemistry (2007), 3(2), 121-126

CODEN: MCEHAJ; ISSN: 1573-4064

Rontham Science Publishers Ltd

PUBLISHER: Bentham Science Publishers Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

The chloroform and hexane fractions and their sub-fractions of Polygonum ABbistorta (Polygonaceae) were evaluated for their cytotoxic activity against P338 (Murine lymphocytic leukemia), HepG2 (Hepatocellular carcinoma), J82 (Bladder transitional carcinoma), HL60 (Human leukemia), MCF7 (Human breast cancer), and LL2 (Lewis lung carcinoma) cancer cell lines in culture. Both the chloroform and hexane fractions and a few of their sub-fractions showed moderate to very good activity against P388, HL60, and LL2 cancer cell lines. Both active and non-active fractions were further investigated for their chemical constituents. A total of 9 compds., viz. 24(E)-ethylidenecycloartanone (1), 24(E)-ethylidenecycloartan- 3α -ol (2), cycloartane-3,24-dione (3), 24-methylenecycloartanone (4), friedelin (5), 3β-friedelinol (6), β-sitosterol (7), γ -sitosterol (8), and β -sitosterone (9) were isolated. One of the pure compds., 24(E)-ethylidenecycloartanone 1, which was obtained in sufficient quantity, was tested for its cytotoxicity against P388, LL2, HL60, and

activity even at a concentration of 100 µg/mL.

REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

WEHI164 (Murine fibrosarcoma) cancer cell lines but was found to have no

L25 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:498800 CAPLUS

DOCUMENT NUMBER: 143:145584

TITLE: Chemical investigations and biological studies of

Mallotus apelta: VI- cytotoxic constituents from

Mallotus apelta

AUTHOR(S): Chau, Van Minh; Le, Mai Huong; Phan, Van Kiem; Nguyen,

Hoai Nam; Jung, Joon Lee; Young, Ho Kim

CORPORATE SOURCE: Institute of Natural Products Chemistry, Vietnamese

Academy of Science and Technology, Vietnam

SOURCE: Tap Chi Hoa Hoc (2005), 43(1), v-vi

CODEN: TCHHDC; ISSN: 0378-2336

PUBLISHER: Toa Soan Tap Chi Hoa Hoc DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. In searching for bioactive compds. from natural products on cytotoxic effects against various cancer cell lines, 22 isolated compds. from Mallotus apelta were tested for their cytotoxic effects against various cancer cell lines, such as KB (human epidermoid carcinoma), FL (fibrillary sarcoma of the uterus), and Hep-2 (human hepatocellular carcinoma) cells in an in vitro assay system. Of which, Malloapelta B showed strong cytotoxic effect against three cancer cell lines as KB, FL, and Hep-2 by in vitro assay. Malloapelta B showed strong cytotoxic effect against all three cancer cell lines as KB (50% inhibitory concentration IC50, 2.12 \pm 0.01 $\mu g/mL)$, FL, and Hep-2, while the other compds. did not show inhibitory activities with IC50 values over 50 μM .

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN L25 ANSWER 3 OF 9

1998:537988 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 129:173100

The cytotoxic activity of a Salacia liana species from TITLE:

Monteverde, Costa Rica, is due to a high concentration

to tingenone

Setzer, William N.; Setzer, Mary C.; Hopper, Amanda AUTHOR(S):

> L.; Moriarity, Debra M.; Lehrman, Ginger K.; Niekamp, Katherine L.; Morcomb, Suzanne M.; Bates, Robert B.; McClure, Kelly J.; Stessman, Chad C.; Haber, William

Department Chemistry, University Alabama, Huntsville, CORPORATE SOURCE:

AL, 35899, USA

Planta Medica (1998), 64(6), 583 SOURCE:

CODEN: PLMEAA; ISSN: 0032-0943

Georg Thieme Verlag PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

The cytotoxic activity of a Salacia species from lower montan moist forest AB at 1350 m at Monteverde, Costa Rica, was investigated. The stem bark was extracted with CHCl3 to obtain extract The crude extract showed in vitro

cytotoxic

activity against Hep-HG2 (human hepatocellular carcinoma),

H-4-II-E (rat hepatoma), and SK-Mel-28 (human melanoma) cell lines. extract was subjected to a bioactivity-directed flash chromatog. and the

following compds. were isolated: friedelin, 1-hydroxy-3,6-

dimethoxy-8-methyl-9H-xanthen-9-one, friedelan-3-on-29-al, canophyllol, 29-hydroxyfriedelan-3-one, and tingenone (cytotoxic, 0.24% of the fresh In vitro cytotoxicity (IC50 values) for tingenone was 1.9, 2.7, and 1.7 µM against Hep-G2, H-4-II-E, and SK-Mel-28 cell lines, resp.

CAPLUS COPYRIGHT 2007 ACS on STN ANSWER 4 OF 9 L25

ACCESSION NUMBER: 1998:31640 CAPLUS

128:32350 DOCUMENT NUMBER:

Friedelane Triterpenoids from Maytenus macrocarpa TITLE:

Chavez, H.; Estevez-Braun, A.; Ravelo, A. G.; AUTHOR (S):

Gonzalez, A. G.

Instituto Universitario de Bio-Organica Antonio CORPORATE SOURCE:

Gonzalez, Universidad de La Laguna, Tenerife, 38206,

Spain

I

Journal of Natural Products (1998), 61(1), 82-85 SOURCE:

CODEN: JNPRDF; ISSN: 0163-3864

American Chemical Society PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

GI

AB A set of friedelane triterpenoids has been isolated from the stem bark exudates of Maytenus macrocarpa. It includes a new friedelan triterpene (I), together with the known compds. friedelin, 3-oxo-29-hydroxyfriedelane, 3-oxofriedelan-25-al, and canophyllol. The structures of these compds. were elucidated by spectroscopic and chemical evidence. Complete 1H and 13C assignments were achieved by 2D NMR spectroscopy. The new compound showed weak activity against aldose reductase. It did not display antitumor activity against P-388 lymphoid neoplasm, A-549 human lung carcinoma, HT-29 human colon

carcinoma, or MEL-28 human melanoma cell lines.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:220856 CAPLUS

TITLE: A phytochemical investigation of alchornea latifolia

(euphorbiaceae).

AUTHOR(S): Shen, Xiaoming; Setzer, William N.; Zhang, Ping;

Moriarity, Debra M.; Lawton, Robert O.

CORPORATE SOURCE: Department Chemistry, University Alabama Huntsville,

Huntsville, AL, 35899, USA

SOURCE: Book of Abstracts, 211th ACS National Meeting, New

Orleans, LA, March 24-28 (1996), ORGN-252. American

Chemical Society: Washington, D. C.

CODEN: 62PIAJ

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

AB Leaves of Alchornea latifolia (Euphorbiaceae), collected from Monteverde,

Costa Rica, have been extracted (chloroform extraction and ethanol

extraction). The

crude exts. show in-vitro cytotoxic activity against Hep-G2 human

hepatocellular carcinoma. In a search for the bioactive

materials from this plant, we have isolated, purified, and structurally

characterized a number of components from the crude exts. In addition to the

triterpenes friedelin and taraxerone, and the sterol

 β -sitosterol, the A-ring-opened triterpenes 1-4 have been isolated by preparative liquid chromatog. and their structures verified by NMR spectroscopy.

L25 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:218096 CAPLUS

TITLE: Cytotoxic activity of derivatives of the triterpene

friedelin.

AUTHOR(S): Shelledy, Linda; Hopper, Amanda L.; Setzer, William N. CORPORATE SOURCE: Department Chemistry, University Alabama, Huntsville,

AL, 35899, USA

SOURCE: Book of Abstracts, 211th ACS National Meeting, New

Orleans, LA, March 24-28 (1996), CHED-249. American

Chemical Society: Washington, D. C.

CODEN: 62PIAJ

DOCUMENT TYPE: Conference; Meeting Abstract

LANGUAGE: English

We have found a number of seco-A triterpenes to exhibit in-vitro cytotoxic activity against human tumor-derived cell lines. In addition, these materials are topoisomerase II inhibitors. In this work, we have isolated friedelin, 1, from cork, carried out a Baeyer-Villiger oxidation to give the lactone 2, and subsequently hydrolyzed the lactone to give the A-ring-opened triterpene 3. These materials have been tested for cytotoxic activity against Hep-G2 human hepatocellular carcinoma cells.

L25 ANSWER 7 OF 9 MEDLINE on STN

ACCESSION NUMBER: 2007149868 MEDLINE

DOCUMENT NUMBER: PubMed ID: 17348850

TITLE: Evaluation of Polygonum bistorta for anticancer potential

using selected cancer cell lines.

AUTHOR: Manoharan Karuppiah Pillai; Yang Daiwen; Hsu Annie; Huat

Benny Tan Kwong

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, National

University of Singapore, Singapore.

SOURCE: Medicinal chemistry (Sh ariqah, United Arab Emirates),

(2007 Mar) Vol. 3, No. 2, pp. 121-6.

Journal code: 101240303. ISSN: 1573-4064.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200705

ENTRY DATE: Entered STN: 13 Mar 2007

Last Updated on STN: 16 May 2007 Entered Medline: 15 May 2007

The chloroform and hexane fractions and their sub-fractions of Polygonum AB bistorta (Polygonaceae) were evaluated for their cytotoxic activity against P338 (Murine lymphocytic leukaemia), HepG2 (Hepatocellular carcinoma), J82 (Bladder transitional carcinoma), HL60 (Human leukaemia), MCF7 (Human breast cancer) and LL2 (Lewis lung carcinoma) cancer cell lines in culture. Both the chloroform and hexane fractions and a few of their sub-fractions showed moderate to very good activity against P388, HL60 and LL2 cancer cell lines. Both active and non-active fractions were further investigated for their chemical constituents. A total of nine compounds, viz. 24(E)ethylidenecycloartanone (1), 24(E)-ethylidenecycloartan-3alpha-ol (2), cycloartane-3,24-dione (3), 24-methylenecycloartanone (4), friedelin (5), 3beta-friedelinol (6), beta-sitosterol (7), gamma-sitosterol (8) and beta-sitosterone (9) were isolated. One of the pure compounds, 24(E)-ethylidenecycloartanone 1, which was obtained in sufficient quantity, was tested for its cytotoxicity against P388, LL2, HL60 and WEHI164 (Murine fibrosarcoma) cancer cell lines but was found to have no activity even at a concentration of 100 microg/mL.

L25 ANSWER 8 OF 9 MEDLINE on STN

ACCESSION NUMBER: 2006460370 IN-PROCESS

DOCUMENT NUMBER: PubMed ID: 16883274

TITLE: Cytotoxic activities of chemical constituents from Mesua

daphnifolia.

AUTHOR: Ee G C L; Lim C K; Rahmat A; Lee H L

CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Universiti

Putra Malaysia, 43400 Serdang, Selangor, Malaysia. Tropical biomedicine, (2005 Dec) Vol. 22, No. 2, pp.

99-102.

Journal code: 8507086. ISSN: 0127-5720.

PUB. COUNTRY: Malaysia

SOURCE:

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: NONMEDLINE; IN-DATA-REVIEW; IN-PROCESS; NONINDEXED;

Priority Journals

ENTRY DATE: Entered STN: 3 Aug 2006

Last Updated on STN: 12 Dec 2006

Detail chemical investigations on the stem bark of Mesua daphnifolia gave three triterpenoids and four xanthones. They are friedelin (1), friedelan-1,3-dione (2), lup-20(29) - en-3ss-ol (3), cudraxanthone G (4), ananixanthone (5), 1,3,5-trihydroxy-4-methoxyxanthone (6) and euxanthone (7). These chemical constituents were tested in vitro for their cytotoxic activities against four cell lines, MDA-MB-231 (human estrogen receptor negative breast cancer), HeLa (cervical carcinoma), CEM-SS (T-lymphoblastic leukemia) and CaOV3 (human ovarian cancer). Compound 4

showed a broad spectrum of activity against the MDA-MB-231, HeLa and CEM-SS cell lines with IC5 0 values of 1.3, 4.0 and 6.7 microg/ml respectively. Meanwhile, the other compounds 1, 2, 3, 5, 6 and 7 gave only selective activities against the cell lines.

L25 ANSWER 9 OF 9 MEDLINE on STN

MEDLINE ACCESSION NUMBER: 1998123208

DOCUMENT NUMBER:

PubMed ID: 9461656

TITLE:

Friedelane triterpenoids from Maytenus macrocarpa.

AUTHOR:

Chavez H; Estevez-Braun A; Ravelo A G; Gonzalez A G

CORPORATE SOURCE:

Instituto Universitario de Bio-Organica, Antonio Gonzalez,

Universidad de Laguna, Tenerife, Canary Island, Spain.

SOURCE:

Journal of natural products, (1998 Jan) Vol. 61, No. 1, pp.

82-5.

Journal code: 7906882. ISSN: 0163-3864.

PUB. COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199803

ENTRY DATE:

Entered STN: 26 Mar 1998

Last Updated on STN: 26 Mar 1998 Entered Medline: 16 Mar 1998

A set of friedelane triterpenoids has been isolated from the stem bark ABexudates of Maytenus macrocarpa. It includes a new friedelan triterpene (1), together with the known compounds friedelin, 3-oxo-29-hydroxyfriedelane, 3-oxofriedelan-25-al, and canophyllol. structures of these compounds were elucidated by spectroscopic and chemical evidence. Complete 1H and 13C assignments were achieved by 2D NMR spectroscopy. The new compound showed weak activity against aldose reductase. It did not display antitumor activity against P-388 lymphoid neoplasm, A-549 human lung carcinoma, HT-29 human colon carcinoma, or MEL-28 human melanoma cell lines.

L26 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:341293 CAPLUS

DOCUMENT NUMBER: 141:103190

TITLE: Cytotoxic lupane-type triterpenoids from Acacia

mellifera

AUTHOR(S): Mutai, Charles; Abatis, Dennis; Vagias, Constantinos;

Moreau, Dimitri; Roussakis, Christos; Roussis,

Vassilios

CORPORATE SOURCE: Department of Pharmacy, Division of Pharmacognosy and

Chemistry of Natural Products, University of Athens,

Athens, 157 71, Greece

SOURCE: Phytochemistry (Elsevier) (2004), 65(8), 1159-1164

CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

One new and eight previously described lupane-type metabolites were isolated for the first time from Acacia mellifera (Leguminosae). Based on spectral analyses, the structure of the new compound was elucidated as 28-hydroxy-3-oxo-lup-20-(29)-en-30-al (1), while the known compds. were identified as 3-oxo-lup-20-(29)-en-30-al (2), 3-hydroxy-lup-20-(29)-en-30-al (3), 28-hydroxy-lup-20-(29)-en-3-one (4), lupenone (5), lupeol (6), betulin (7), betulinic acid (8), and betulonic acid (9). Metabolites 2, 3, and 4 are reported for the first time in the Leguminosae family. The cytotoxicity of the isolated metabolites was evaluated on the NSCLC-N6 cell line, derived from a human non-small-cell bronchopulmonary

carcinoma. Compds. 1 and 3 exhibited significant levels of

activity.

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:526503 CAPLUS

DOCUMENT NUMBER: 127:238976

TITLE: Cytotoxic constituents from the stems of Diospyros

maritima

AUTHOR(S): Kuo, Yao Haur; Chang, Chi I.; Li, Shyh Yuan; Chou,

Cheng Jen; Chen, Chieh Fu; Kuo, Yueh Hsiung; Lee, Kuo

Hsiung

CORPORATE SOURCE: National Research Institute Chinese Medicine, Taipei,

11221, Taiwan

SOURCE: Planta Medica (1997), 63(4), 363-365

CODEN: PLMEAA; ISSN: 0032-0943

PUBLISHER: Thieme
DOCUMENT TYPE: Journal
LANGUAGE: English

One novel coumaric acid ester of lupeol, dioslupecin A (I), three ABnaphthoquinones, 8'-hydroxyisodiospyrin (II), isodiospyrin (III), and plumbagin (IV), three triterpenes, lupeol, lupenone, and taraxerone, and four sterols, β -sitosterol, stigmasterol, stigmast-4-en-3-one, and ergosta-4,6,8(14),22-tetraen-3-one were isolated from the n-hexane extract of the stems of Diospyros maritima. The structural determination of I was based on 1D and 2D NMR spectra . All compds. were evaluated for in vitro cytotoxicity in 4 cancer cell lines. II showed similar cytotoxicity against hepatoma (HEPA-3B, ED50 = 1.72 μ g/mL), nasopharynx carcinoma (KB, ED50 = 1.85 μ g/mL), colon carcinoma (COLO-205, ED50 = 2.24 mg/mL) and cervical carcinoma (HELA, ED50 = 1.92 μ g/mL). III and IV exhibited strong cytotoxicity against HEPA-3B, KB, COLO-205 and HElA (ED50 = 0.25, 1.81, 0.13, and 0.27 μ g/mL for III; ED50 = 0.87, 3.27, 0.56, and 0.35 μg/mL for IV), resp.

1971:472431 CAPLUS ACCESSION NUMBER:

75:72431 DOCUMENT NUMBER:

Biological and phytochemical evaluation of plants. TITLE: IX. Antitumor activity of Maytenus senegalensis

(Celastraceae) and a preliminary phytochemical

investigation

Tin-Wa, M.; Farnsworth, N. R.; Fong, H. H. S.; AUTHOR(S):

Blomster, R. N.; Trojanek, J.; Abraham, D. J.;

Persinos, G. J.; Dokosi, O. B.

Sch. Pharm., Univ. Pittsburgh, Pittsburgh, PA, USA CORPORATE SOURCE:

Lloydia (1971), 34(1), 79-87 SOURCE:

CODEN: LLOYA2; ISSN: 0024-5461

Journal DOCUMENT TYPE: English LANGUAGE:

Material isolated from M. senegalensis was tested for cytotoxic effect AB

against 9KB carcinoma and L-120 and PS leukemia. Extraction of

ground plant material with Skellysolve B yielded a new compound, triterpene

A, C30H48O3, m. 262, $[\alpha]$ 26D -32.4 (in CHCl3) and β -amyrin.

Further extraction of the defatted material with EtOH followed by CHCl3

fractionation and Craig countercurrent distribution yielded

lupenone, β -sitosterol, dulcitol, wilforine, a 2nd new

compound, triterpene B (C30H46O3), and β -sitosterol xyloside, not

previously isolated from a member of the plant kingdom. Dulcitol isolated in high yield inhibited PS leukemia at a dose of 500 mg/kg but was not

cytotoxic.

L26 ANSWER 4 OF 5 MEDLINE on STN

2004213955 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER: PubMed ID: 15110698

Cytotoxic lupane-type triterpenoids from Acacia mellifera. TITLE: Mutai Charles; Abatis Dennis; Vagias Constantinos; Moreau AUTHOR:

Dimitri; Roussakis Christos; Roussis Vassilios

University of Athens, Department of Pharmacy, Division of CORPORATE SOURCE:

> Pharmacognosy and Chemistry of Natural Products, Panepistimiopolis Zografou, Athens 157 71, Greece.

Phytochemistry, (2004 Apr) Vol. 65, No. 8, pp. 1159-64. SOURCE:

Journal code: 0151434. ISSN: 0031-9422.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) DOCUMENT TYPE: (RESEARCH SUPPORT, NON-U.S. GOV'T)

English LANGUAGE:

Priority Journals FILE SEGMENT:

ENTRY MONTH: 200407

Entered STN: 28 Apr 2004 ENTRY DATE: .

> Last Updated on STN: 13 Jul 2004 Entered Medline: 12 Jul 2004

One new and eight previously described lupane-type metabolites were AB isolated for the first time from Acacia mellifera (Leguminosae). Based on spectral analyses, the structure of the new compound was elucidated as 28-hydroxy-3-oxo-lup-20-(29)-en-30-al (1), while the known compounds were identified as 3-oxo-lup-20-(29)-en-30-al (2), 3-hydroxy-lup-20-(29)-en-30-

al (3), 28-hydroxy-lup-20-(29)-en-3-one (4), lupenone (5), lupeol (6), betulin (7), betulinic acid (8), and betulonic acid (9). Metabolites 2, 3, and 4 are reported for the first time in the Leguminosae family. The cytotoxicity of the isolated metabolites was evaluated on the NSCLC-N6 cell line, derived from a human non-small-cell bronchopulmonary

carcinoma. Compounds 1 and 3 exhibited significant levels of

activity.

MEDLINE on STN L26 ANSWER 5 OF 5 ACCESSION NUMBER: 97416431 MEDLINE PubMed ID: 9270382 DOCUMENT NUMBER:

Cytotoxic constituents from the stems of Diospyros TITLE:

maritima.

AUTHOR: Kuo Y H; Chang C I; Li S Y; Chou C J; Chen C F; Kuo Y H;

Lee K H

SOURCE: Planta medica, (1997 Aug) Vol. 63, No. 4, pp. 363-5.

Journal code: 0066751. ISSN: 0032-0943. GERMANY: Germany, Federal Republic of

PUB. COUNTRY: GERMANY DOCUMENT TYPE: Letter

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199709

ENTRY DATE:

Entered STN: 8 Oct 1997

Last Updated on STN: 8 Oct 1997 Entered Medline: 19 Sep 1997

One novel coumaric acid ester of lupeol, dioslupecin A (1), three ABnaphthoquinones, 8'-hydroxyisodiospyrin (2), isodiospyrin (3), and plumbagin (4), three triterpenes, lupeol, lupenone and taraxerone, and four sterols, beta-sitosterol, stigmasterol, stigmast-4-en-3-one and ergosta-4,6,8(14),22-tetraen-3-one were isolated from the n-hexane extract of the stems of Diospyros maritima Blume. structural determination of 1 was based on 1D and 2D NMR spectra (including 1H-1H COSY, 1H-13C COSY, and HMBC). All compounds were evaluated for in vitro cytotoxicity in 4 cancer cell lines. Compound 2 showed similar cytotoxicity against hepatoma (HEPA-3B, ED50 = 1.72 micrograms/ml), nasopharynx carcinoma (KB, ED50 = 1.85 micrograms/ml), colon carcinoma (COLO-205, ED50 = 2.24 micrograms/ml) and cervical carcinoma (HELA, ED50 = 1.92 micrograms/ml). Compounds 3 and 4 exhibited strong cytotoxicity against HEPA-3B, KB, COLO-205 and HELA (ED50 = 0.25, 1.81, 0.13 and 0.27 micrograms/ml for 3; ED50 = 0.87, 3.27, 0.56 and 0.35 micrograms/ml for 4, respectively.